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BIOLOGICAL PRODUCTS

ESTABLISHMENTS LICENSED FOR THE PROPAGATION AND SALE OF VIRUSES, SERUMS, TOXINS, AND ANALOGOUS PRODUCTS

There is presented below a list of the establishments holding licenses issued by the Treasury Department in accordance with the act of Congress approved July 1, 1902, entitled "An act to regulate the sale of viruses, serums, toxins, and analogous products in the District of Columbia, to regulate interstate traffic in said articles, and for other purposes."

The licenses granted to these establishments for the products mentioned do not imply an indorsement of the claims made by the manufacturers for their respective preparations. The granting of a license means that inspection of the establishment concerned and laboratory examinations of samples of its products are made regularly to insure the observance of safe methods of manufacture, to ascertain freedom from contamination, and to determine the potency, or safety, or both, of diphtheria antitoxin, scarlet fever streptococcus antitoxin, tetanus antitoxin, botulinus antitoxin, antidysenteric serum, antimeningococcic serum, antipneumococcic serum, bacterial vaccines made from typhoid bacillus, paratyphoid bacillus A. and paratyphoid bacillus B, diphtheria toxin-antitoxin mixture, diphtheria toxin for Schick test, scarlet fever streptococcus toxin for Dick test, scarlet fever streptococcus toxin for immunization, and the arsphenamines, the only products for which potency standards or tests have been established.

The enumeration of the products is as follows: Serums are placed first, the antitoxins, being more important, heading the list. The other products are arranged generally in the order of their origin. The items in each class are arranged alphabetically.

Establishments Licensed and Products for which Licenses have been Issued

AMERICAN ESTABLISHMENTS

Parke, Davis & Co., Detroit, Mich.-License No. 1:

Diphtheria antitoxin; scarlet fever streptococcus antitoxin; tetanus antitoxin; antianthrax serum; antidysenteric serum; antigonococcic serum; antimeningococcic serum; antipneumococcic serum; antistreptococcic serum; themostatic serum (Lapenta); normal horse serum; thyroidectomized horse serum;
vaccine virus; rabies vaccine (Cumming); tuberculin old; tuberculin T. R.; tuberculin B. E.; tuberculin B. F.; bacterial vaccines made from acne bacillus, acne diplococcus, colon bacillus, Friedlände,
bacillus, gonococcus, influenza bacillus, meningococcus, mierococcus catarrhalis, paratyphoid
bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, prodigiosus bacillus, pseud.-

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diphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus and typhoid bacillus; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test; scarlet fever streptococcus toxin for Dick test; scarlet fever streptococcus toxin for immunization; animal epidermal extract; animal food extract; vegetable food extract; pollen extract; modified bacterial derivatives made from colon bacillus, gonococcus, paratyphoid bacillus A, paratyphoid bacillus B, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; bacterial antigen made from gonococcus, pertussis bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, and streptococcus.

H. K. Mulford Co., Philadelphia, Pa.-License No. 2:

Diphtheria antitoxin; erysipelas streptoececus antitoxin; perfringens antitoxin; scarlet fever streptococcus antitoxin; tetanus antitoxin; antianthrax serum; antidysenteric serum; antigonococcic serum; antimelitensis serum; antimeningococcic serum; antipneumococcic serum; antistreptococcic serum; normal horse serum; vaccine virus; rabies vaccine (Pasteur); rabies vaccine (killed virus); tuberculin old; tuberculin T. R.; tuberculin B. E.; tuberculin B. F.; tuberculin proteose-free (Lyons); bacterial vaccines made from acne bacillus, cholera vibrio, colon bacillus, dysentery bacillus, Friedländer bacillus, gonocoecus, influenza bacillus, meningocoecus, microcoecus catarrhalis, micrococcus melitensis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacilius, pneumococcus, pseudodiphtheria bacilius, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; sensitized bacterial vaccines made from acne bacillus, cholera vibrio, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test; scarlet fever streptococcus toxin for Dick test; scarlet fever streptococcus toxin for immunization; pollen extract; animal epidermal extract; animal food extract; vegetable food extract; poison ivy extract; pneumococcus antibody solution.

Slee Laboratories, Swiftwater, Pa.-License No. 6:

Diphtheria antitoxin; tetanus antitoxin; normal horse serum; vaccine virus; bacterial vaccines made from colon bacillus, gonococcus, paratyphoid bacillus A, paratyphoid bacillus B, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus.

The Cutter Laboratory, Borkeley, Calif.—License No. 8:

Diphtheria antitoxin; tetanus antitoxin; antistreptococcle serum; normal horse serum; vaccine virus; rabies vaccine (Pasteur); rabies vaccine (killed virus); taberculin old; tuberculin B. F.; bacterial vaccines made from acne bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, micrococcus catarrhalls, paratyphold bacillus A, paratyphoid bacillus B, pertussis bacillus, penumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test; pollen extract.

Bureau of Laboratories, Department of Health, New York City.—License No. 14:

Diptheria antitoxin, scarlet fever streptococcus antitoxin, tetanus antitoxin; antimeningococcic serum; antipneumococcic serum; normal horse serum; vaccine virus; rabies vaccine (Pasteur); tuberculin old; bacterial vaccines made from gonococcus, paratyphoid bacillus A, paratyphoid bacillus B,

old; bacterial vaccines made from gonococcus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pheumococcus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; diphtheris toxin-antitoxin mixture; diphtheria toxin for Schick test.

Lederle Antitoxin Laboratories, Pearl River, N. Y.—License No. 17:

Diphtheria antitoxin; scarlet fever streptococcus antitoxin; tetanus antitoxin; antianthrax serum; antidysenteric serum; antigonococcic serum; antimeningococcic serum; antipaeumococcic serum; antistreptococcic serum; measles immune serum; normal horse serum; antipaeumococcic serum; antistreptococcic serum; measles immune serum; normal horse serum; vaccine virus; rabies vaccine (Pasteur); rabies vaccine (killed virus); tuberculin old; tuberculin B. E.; tuberculin B. F.; bacterial vaccines.made from acno bacillus, cholera vibrio, colon bacillus, F. tuberculin B. F.; bacterial vaccines.made from acno bacillus, delera vibrio, colon bacillus, fratyphoid bacillus, genococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, petudodiphtheria bacillus, staphylococcus albus, staphylococcus albus, staphylococcus albus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus; diphtheria toxin-antitoxin mixture; pollen extract; polson ivy extract; polson oak extract; diphtheria toxin for Schick test; scarlet fever streptococcus toxin for Dick test; scarlet fever streptococcus toxin for munication.

Bacterio-Therapeutiq Laboratory, Asheville, N. C.-License No. 23:

Watery extract of tubercle bacilli (von Ruck); modified tubercle bacillus derivative (von Ruck).

G. H. Sherman, M. D., Inc., East Jefferson Avenue, Detroit, Mich.-License No. 30:

Bacterial vaccines made from aone bacillus, colon bacillus, Friedländer bacillus, genococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, nonvirulent tubercle bacillus, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; pollen extract.

The Abbott Laboratories, North Chicago, Ill.-License No. 43:

Bacterial vaccines made from acpe bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; pollen extract.

Dr. W. T. McDougall, 422 Brotherhood Building, Eighth and Minnesota Avenue, Kansas City, Kans.—License No. 49:

Rabies vaccine (Pasteur).

St. Louis Pasteur Institute, 3514 Lucas Avenue, St. Louis, Mo.—License No. 50: Rabies vaccine (dilution method).

The Upjohn Co., Kalamazoo, Mich.-License No. 51:

Bacterial vaccines made from colon bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; polien extract.

E. R. Squibb & Sons' Research and Biological Laboratories, New Brunswick, N. J.-License No. 52:

Diphtheria antitoxin, erysipelas streptococcus antitoxin, scarlet fever streptococcus antitoxin; tetanus antitoxin; antimeningococcic serum; antipneumococcic serum; antistreptococcic serum; normal horse serum; vaccine virus; rabies vaccine (Pasteur); rabies vaccine (killed virus); bacterial vaccines made from acne bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus, and typhoid bacillus; leucocytic extract from the horse; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test; scarlet fever streptococcus toxin for Dick test; scarlet fever st

Dr. James McI. Phillips, 2057 North High Street, Columbus, Ohio.—License No. 54: Rabies vaccine (dilution method).

Eli Lilly & Co., Indianapolis, Ind.—License No. 56:

Diphtheria antitoxin; erysipelas streptococcus antitoxin; scarlet fever streptococcus antitoxin; tetanus antitoxin; antimeningococcie serum; antistreptococcie serum; normal horse serum; vaccine virus; rabies vaccine (Harris); tuberculin old; tuberculin T. R.; tuberculin B. E.; tuberculin B. F.; bacterial vaccines made from acne bacillus, cholera vibrio, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, meningococcus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, plague bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test.

Swan Myers Co., 219 North Senate Avenue, Indianapolis, Ind.—License No. 58:

Bacterial vaccines made from acne bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, micrococcus tetragenus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; pollen extract; scarlet fever streptococcus toxin for Dick test; scarlet fever streptococcus toxin for immunization.

Gilliland Laboratories, Marietta, Pa.-License No. 63:

Diphtheria antitoxin; scarlet fever streptococcus antitoxin; tetanus antitoxin; antimeningococcic serum antipneumococcic serum; antistreptococcic serum; normal horse serum; vaccine virus; rabies vaccine (Pasteur); tuberculin old; tuberculin B. E.; tuberculin B. F.; bacterial vaccines made from acne bacillus, gonococcus, influenza bacillus, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test.

Antitoxin and Vaccine Laboratory, Department of Public Health, Commonwealth of Massachusetts,

Jamaica Plain, Boston 30, Mass.-License No. 64:

Diphtheria antitoxin; scarlet fever streptococcus antitoxin; antimeningococcus serum; antipneumococcus serum; vaccine virus; bacterial vaccines made from paratyphoid bacillus A, paratyphoid bacillus B, and typhoid bacillus; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test.

United States Standard Products Co., Woodworth, Wis.-License No. 65:

Diphtheria antitoxin; scarlet fever streptococcus antitoxin; tetanus antitoxin; normal horse serum; bacterial vaccines made from acne bacillus, colon bacillus, gonococcus, influenza bacillus, micrococcus catarrhalis, paratyphoid bacillus A, paratyphoid, bacillus B, pertussis bacillus, pneumococcus, pseudodiphtheria bacillus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test; scarlet fever streptococcus toxin for immunization.

D. L. Harris Laboratories, Metropolitan Building, St. Louis, Mo.—License No. 66: Rabies vaccine (Harris).

The Arlington Chemical Co., Yonkers, N. Y .- License No. 67:

Bacterial vaccines made from colon bacillus, micrococcus tetragenus, pneumococcus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, streptococcus; pollen extract; animal epidermal extract; animal food extract; vegetable food extract.

Dermatological Research Laboratories, Philadelphia, Pa. (branch of Abbott Laboratories, Chicago, Ill.)— License No. 68:

Arsphenamine; neoarsphenamine; sulpharsphenamine; bismuth arsphenamine sulphonate.

H. A. Metz Laboratories, 122 Hudson Street, New York City.-License No. 69:

Arsphenamine; neoarsphenamine; sodium arsphenamine; silver arsphenamine; neosilver arsphenamine; sulpharsphenamine.

Synthetic Drugs and Diarsenol Laboratories, Buffulo, N. Y.-License No. 70:

Arsphenamine; neoarsphenamine; sodium arsphenamine; sulpharsphenamine.

Hynson, Westcott & Dunning, Baltimore, Md.—License No. 76: Suspension of arsphenamine; suspension of neoarsphenamine.

Mallinckrodt Chemical Works, St. Louis, Mo.—License No. 77:

Arsphenamine; neoarsphenamine; sulpharsphenamine.

Agricultural Experiment Station, College of Agriculture, University of Illinois, Urbana, Iil.—License No. 8i:

Botulinus antitoxin.

Powers-Weightman-Rosengarten Co., Philadelphia, Pa.-License No. 82:

Arsphenamine; neoarsphenamine; sulpharsphenamine; a compound of glucose with arsphenamine base.

Terrell Laboratories, Texas National Bank Building, Fort Worth, Tex.—License No. 84: Rabies vaccine (killed virus).

Jensen-Salsbury Laboratories, Kansas City, Mo.—License No. 85: Botulinus antitoxin; rabies vaccine (killed virus).

Cook Laboratories, 536 Lake Shore Drive, Chicago, Ill.—License No. 86:

Bacterial vaccines made from acne bacillus, colon bacillus, Friedländer bacillus, gonococcus, influenza bacillus, micrococcus catarrahalis, paratyphoid bacillus A, paratyphoid bacillus B, pertussis bacillus, pneumococcus, staphylococcus albus, staphylococcus aureus, streptococcus, and typhoid bacillus; diphtheria toxin-antitoxin mixture.

The Neosol Co., 72 Kingsley St., Buffalo, N. Y.—License No. 90: Solution of neoarsphenamine; solution of sulpharsphenamine.

Hollister-Stier Laboratories, 312 Old National Bank Bldg., Spokane, Washington.—License No. 91: Pellen extract.

DePree Laboratories, Holland, Michigan.—License No. 93: Arsphenamine: neoarsphenamine.

The Jackson Infirmary, Jackson, Mississippi.—License No. 96: Rabies vaccine (Pasteur); rabies vaccine (killed virus).

Medical Arts Laboratory, Medical Arts Bldg., Oklahoma City, Oklahoma.—License No. 98: Rabies vaccine (killed virus).

Bureau of Laboratories, Department of Health, Lansing, Mich.-License No. 99:

Diphteria antitoxin; bacterial vaccine made from paratyphoid bacillus A, paratyphoid bacillus B, and typhoid bacillus; diphtheria toxin-antitoxin mixture; diphtheria toxin for Schick test; scarlet fever streptococcus toxin for Dick test; scarlet fever streptococcus toxin for immunization.

FOREIGN ESTABLISHMENTS

Institut Pasteur de Paris, Paris, France.—License No. 11. Selling agents for the United States: Pasteur Laboratories of America, 366 West Eleventh Street, New York City:

Diphtheria antitoxin; tetanus antitoxin; antianthrax serum; antidysenteric serum; antiplague serum; anti-treptococcic serum; bacterial vaccines made from cholera vibrio, plague bacillus, staphylococcus albus, and staphylococcus aureus.

Farbwerke Hoechst, vorm. Meister Lucius und Brüning, Hoechst am Main, Germany.—License No. 24. Selling agents for the United States: H. A. Metz Laboratories, 122 Hudson St., New York City:

Diphtheria antitoxin; tetanus antitoxin; antistreptococcle serum; normal horse serum; tuberculin old; tuberculin T. R.; tuberculin B. E.; tuberculin B. F.; bacterial vaccines made from cholera vibrio gonococcus, staphylococcus albus, staphylococcus attreus, and staphylococcus citreus; typhoid bacillus; sensitized bacterial vaccine made from typhoid bacillus; arsphenamine; neoarsphenamine; sodium arsphenamine; silver arsphenamine; neosilverarsphenamine; sulphoxylarsphenamine.

E. Merck, Darmstadt, Germany.—License No. 31. Selling agents for the United States: Merck & Co., 45-47 Park Place, New York City: Tuberculin Ointment (Moro).

Connaught Antitoxin Laboratory, University of Toronto, Canada.—License No. 73: Diphtheria antitoxin; tetanus antitoxin.

Les Etablissements Poulenc Frères, 92 Rue Vieille-du-Temple, Paris, III, France.—License No. 74. Selling agents for the United States: Geo. J. Wallau, 6 Cliff St., New York City:

Bacterial vaccines made from gonococcus, micrococcus tetragenus, pertussis bacillus, staphylococcus albus, staphylococcus aureus, and synococcus.

Laboratoire de Biochimie Médicale, 92 Rue Michel-Ange, Paris, France.—License No. 83. Selling agents for the United States: Anglo-French Drug Co., 1270 Broadway, New York City. Selling agents for Porto Rico: Chas. Vere, Box 216, San Juan, P. R: Sulpharsphenamine.

Instituto Sieroterapico Milanese, Milan, Italy.—License No. 87. Selling agents for the United States: Neother Products Co., 50 Union Square, New York City: Antianthrax serum; bacterial vaccines made from gonococcus, pneumococcus, staphylococcus albus, staphylococcus aureus, staphylococcus citreus, and streptococcus; neographenamine.

Boots Pure Drug Co., Ltd., Nottingham, England.—License No. 92. Selling agents for the United States: The United Drug Co., 43 Leon Street, Boston, Massachusetts: Arsphenamine diglucoside. Etablissements Mouheyrat, Villaneuve-la-Garenne, Seine, France.—License No. 94. Selling agents for

the United States: G. J. Wallau, 6 Cliff Street, New York City: Phospharsphenamine.

Institut National de Vaccinotherapie, 26 Rue Pages, Suresnes (Seine), near Paris, France.—License No. 95.
Selling agents for the United States: Lee S. Smith Manufacturing Co., Pittsburgh, Pa.: Bacterial vaccines made from colon bacillus, enterococcus, Friedländer bacillus, micrococcus catarrhalis, micrococcus tetragenus, pneumococcus, staphylococcus albus, staphylococcus aureus, and streptococcus.

Behringswerke, A. G., Marburg-am-Lahn, Germany.—License No. 97: Bacterial vaccines made from gonococcus, staphylococcus albus, and staphylococcus aureus.

ENDEMIC GOITER AND PHYSICAL DEVELOPMENT I. IN CINCINNATI SCHOOL CHILDREN*

By Robert Olesen, Surgeon, and Neil E. Taylor, Acting Assistant Surgeon, United States Public Health Service

INTRODUCTION

While the literature dealing with goiter is voluminous, references to the effects of the endemic type, as it is encountered in the United States, are relatively few and often unconvincing. The etiology, pathology, physiology, distribution, and more recently the prevention of endemic goiter have all received marked attention. At the same time it has seemingly been taken for granted that the manifestations of the affection are so obvious as to require neither recounting nor study.

It has been asserted that endemic goiter is responsible for interference with nutrition and consequently with retardation of normal physical growth. In all probability such impressions have been intensified by contact with and study of simple goiter in regions of marked endemicity, where cretinism, myxedema, and deaf mutism are much more frequent than they are in this country. Nevertheless the subject is a vital one and manifestly requires investigation and study before a conclusion can be reached as to the influence of simple goiter upon the physical development of adolescent boys and girls in the United States.

Function of thyroid in regulating growth.—The action of the thyroid gland in regulating metabolism has aptly been compared to the part played by the governor of an engine or the hairspring of a watch. The thyroid apparatus elaborates its secretion from raw materials in food and drink, being subject to constant call from the processes which regulate growth and govern regular bodily function. Presumably development proceeds normally when ample iodine is available and the thyroid is functioning efficiently.

Trend of opinion in literature.—Many writers maintain that disturbance of thyroid function, such as occurs in well marked endemic goiter, hampers both mental and physical development. Not only

^{*} Editorial Note.—It should be borne in mind that the present study was limited to a single locality, having a moderate incidence of endemic goiter. (Compared with regions of marked endemicity, such as Switzerland, Austria, and Northern India, Cincinnati may be regarded as having only a slight incidence of goiter.) Therefore, the findings can not be accepted as being representative of all portions of the United States. By making further studies it will be possible to ascertain the effects upon physical development in areas of slight and marked goiter prevalence.

is the nutrition of the body disturbed, in their opinion, but growth and physical development are likewise seriously hampered. Moreover, the children affected are said to be below the standard of health and development, look frail, and become fatigued easily. There are a number of noteworthy features peculiar to most of the references relating to endemic goiter and physical growth:

1. There is a marked similarity in the references, suggesting that

the statements were obtained from a common source.

2. There is a lack of evidence in support of the statements made.

3. There is no mention at any time of the size of the goiter; the blanket statements of deleterious effects cover all thyroid enlarge-

ments from the smallest to the largest.

4. No references are made at any time to locality, to incidence, mildness or severity of goiter, in so far as the goitrous conditions are encountered in the United States. There are, of course, numerous allusions to the severity of goiter and its sequelae in regions of great endemicity in foreign countries. However, goiter and its manifestations in the United States are less intense than in certain other countries and therefore the data are not strictly comparable.

Endemic goiter and overheight.—Despite the numerous contentions that growth is retarded by endemic goiter there is considerable evidence to show that height is actually increased in the presence of this malady. Comparisons of physical measurements in cases of colloid goiter by Hill, Brett, and Smith 1, with the average standards for height and weight, showed that a large majority were above height for age. Examinations of drafted men in the United States showed that tall men were particularly prone to goiter, both simple and exophthalmic 2.

Between these varying and often unsupported contentions regarding the influence of endemic goiter upon physical development there is apparently considerable opportunity for research having for its purpose the determination of the true status of the maladjusted thyroid in relation to growth. Particularly is it necessary that conclusions regarding this relationship in the United States be untinged by experiences in Switzerland, Austria, India, and other countries in which simple goiter is known to be responsible for such marked manifestations as cretinism, mutism, and idiocy.

METHOD OF SECURING DATA

In the present study the physical development of thyroid-normal and thyroid-enlarged children were compared by means of estimates and actual measurements. In securing the requisite data, use was

² Army Anthropology. The Medical Department of the United States Army in the World War, Vol. 45, Statistics, Part 1.

¹ H. Gardiner-Hill, P. C. Brett, and J. Forrest-Smith: Adolescent Goiter: Some Factors of Significance in. Quarterly Journal of Medicine, Oxford, 18, 133, January, 1925.

made of a form³ devised by the child hygiene section of the Public Health Service. This form has the advantage of simplicity and yet provides ample information for comparative study. In order to insure uniformity of results, all data were obtained and recorded in a like manner by physicians experienced in work of this character. The "instructions for making physical examinations of children," also prepared by the child hygiene section of the Public Health Service, served as the guide for obtaining the various measurements and estimates.

The estimates made during the course of the study included opinions regarding nutrition and posture. Ten uniform measurements were made of each child, as follows: Standing height, sitting height, weight, chest circumference, chest width, chest depth, vital capacity, head length, head breadth, and head height.

Two thousand nine hundred and seventeen white children were included in the investigation. Of this number 1,341 were boys and 1,576 were girls. The ages of most of the children ranged between 11 and 15 years, during which period thyroid enlargement is very likely to be present, though not to the extent which prevails just after this period. In determining the degrees of thyroid enlargement the standards and classification developed during the Cincinnati survey were followed.

In order to insure representative conditions the children examined were chosen from schools located in different parts of the city. Thus, 3 of the schools were located in the poorer sections of the community, 2 in sections of moderate economic status, and 1 in the best section of the city. In addition there was 1 vocational school, attended largely by part-time girl workers, and 1 junior high school.

In the six elementary schools visited the children examined attended the fifth, sixth, seventh, and eighth grades. In the vocational and junior high schools most of the children were older and attended higher grades. By this means of selection a cross section of the elementary-school population was obtained. Moreover, this cross section was representative of various school ages, grades, sections of the city, environment, and social status.

THE RESULTS

In the following section the results of the physical measurements of children with or without enlargement of the thyroid gland will be set forth by means of comparative tabulations and brief explanation.

Thyroid enlargement.—In Table 1 are displayed the number and percentage of each degree of thyroid enlargement among the 1,341 white boys and 1,576 white girls included in the study, according to

^{*} Form 14.

⁴ Robert Olesen: Thyroid Survey of 47,493 Elementary-School Children in Cincinnati. Pub. Health Rep., vol. 39, No. 30, July 25, 1924, pp. 1777-1802. (Reprint No. 941.)

age. Among the boys there were 515 instances of thyroid enlargement, a percentage of 38.4. A greater number of enlargements, 927, or 58.8 per cent, were recorded among the girls. Owing to the comparatively small number of some of the degrees of thyroid enlargement it was found desirable, for statistical purposes, to reduce the five degrees of enlargement, recorded during the examinations, to three. Thus, the "very slight" and "slight" enlargements were combined and termed "slight." "Moderate" involvement was allowed to stand. "Marked" and "very marked" thickenings were combined and called "marked." In making the various comparisons of measurements all degrees of thyroid enlargement were combined under a single heading. By far the greatest number of enlargements so included were of the slight variety.

Table 1.—Number and percentage of each degree of thyroid enlargement among 1,341 white boys and 1,576 white girls in the Cincinnati public schools, for all ages and for each age between 11 and 15 years

NUMBER OF CHILDREN

Age 11 12 Thyroid status All ages 15 Boys Girls Boys Girls Boys Girls Boys Girls Girls Boys Girls Boys Total ... 1, 341 1, 576 155 156 217 229 273 256 305 331 254 426 139 192 157 25 826 515 649 927 65 91 102 154 Normal 85 70 128 114 120 Slight____ Moderate_ 81 217 121 110 116 79 14 Marked....

PERCENTAGE OF CHILDREN

	-						_					
Total	100.0	100.0	11.6	9.9	16.7	14.5	20.3	16. 2	22.7	21.0	18.9	27. 1
Normal	100.0			10.1								22.4
Slight	100.0		13.6		16.3	18. 2	22. i 21. 5	17. 8	23. 4	19.8		27. 42.
Marked	100.0	100.0	0	0	0		83. 3		0	41.7	66. 0	33.

The number and percentage of each degree of thyroid enlargement at each age between 11 and 15 years, as well as for all ages combined, are also shown in Table 1. It will be seen that slight enlargements were more frequent among the girls—50.4 per cent, as against 37.2 per cent for the boys. Moderate and marked enlargements were approximately eight times more commonly encountered among the girls.

Relation of degree of thyroid enlargement to symptomatology.— Inasmuch as thyroid enlargements of marked degree are commonly supposed to exert more positive and decided influences than do slight enlargements, a word of explanation appears desirable at this point. Probably the following explanation of Bram 5 covers this point most satisfactorily:

Assuming that reference is had to so-called simple or nontoxic goiter, situated in the usual position, above the sternum, in persons of noncretinous or non-myxedematous make-up, and assuming that the thyroid gland is not enlarged to the extent of causing pressure symptoms upon the structures of the neck, I would state that, generally speaking, the size of a thyroid enlargement bears no relation to constitutional disturbances, and that neither stature nor other phases of the economy, structurally or physiologically, appear to be influenced by size of thyroid enlargement. This opinion is based upon my 16 years of work with goiter patients, during which more than 9,000 cases were studied. This is an abstract statement, presenting, as all good rules do, frequent exceptions.

Nativity.—The question of racial susceptibility or immunity to goiter is one which has occasioned much conjecture. During the present study the place of birth of each child, and of his parents and grandparents, were carefully recorded. A child whose parents and grandparents, as well as himself, had been born in the United States was termed "native stock." In this way various combinations of birthplaces were noted.

Ninety-three and eight-tenths per cent of the children examined were born in the United States; probably 75 per cent of these were born in the city of Cincinnati or its environs. Of the 826 thyroid-normal boys, 45.3 per cent were of native stock, while 49.3 per cent of the 515 thyroid-enlarged boys were similarly classed. Slightly smaller percentages of girls, 42.5 per cent of the 647 thyroid-normal and 40 per cent of the 927 thyroid-enlarged, were also native stock.

The combinations of parental nativity are shown in Table 2. Among the boys of native stock 59.6 per cent had normal thyroids, while 40.4 per cent had some degree of thyroid enlargement. Compared with the boys of native stock, five of the groups in Table 2 had greater percentages while three groups had smaller percentages of thyroid-normal individuals. Because of their irregularity these tendencies are not particularly significant.

Forty-two and six-tenths per cent of the girls of native stock had normal thyroids and 57.4 per cent had some degree of thyroid enlargement. When the percentage of thyroid-normal girls of native stock is compared with the remaining groups in Table 2 it is apparent that there are smaller percentages of the same type in seven of the eight remaining groups. While the number of girls included in the present study is entirely too small to serve for the drawing of general conclusions, the data at least suggest that there is less thyroid enlargement among the native-born girls. However, much additional evidence is needed to strengthen this assumption.

Heretofore it has been widely believed that the nativity of parents and grandparents has had little to do with the presence or absence

Dr. Israel Bram, Philadelphia, personal communication, May 7, 1926.

of goiter in the child, provided the family has resided in a community sufficiently long to have suffered the iodine deprivation necessary to induce thyroid enlargement. However, additional information on this point is obviously required before the belief can be accepted as fact.

Table 2.—Number of children in certain groups based on nativity of child, parents, and grandparents, and number and percentage of thyroid-normal and thyroidenlarged in each group

emarged in each grow			во	YS						
//	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	Total
Total number in group	626 373 253 59. 6 40. 4	132 77 55 58.3 41.7	193 117 76 60. 6 39. 4	63 42 21 66.6 33.4	93 64 29 68.8 31.2	34 19 15 55, 9 44, 1	129 89 40 69.0 31.0	27 20 7 74.1 25.9	44 25 19 56. 8 43. 2	1, 341 826 515 61. 6 38. 4
			GIR	Ls	Pe i					
Total number in group	647 276 371 42.6 57.4	168 77 91 45.8 54.2	236 99 137 41. 9 58. 1	95 37 58 39. 0 61. 0	123 44 79 35.8 64.2	42 12 30 28.6 71.4	155 60 95 38.7 61.3	33 12 21 36.4 63.6	77 32 45 41.6 58.4	1, 576 649 927 41. 2 58. 8

Explanation:

(1) Native born (child, both parents, and 4 grandparents born in United States).

(2) Child, both parents, and 3 grandparents born in United States.

(3) Child, both parents, and 2 grandparents born in United States.

(4) Child, both parents, and 1 grandparent born in United States.

(5) Child and both parents born in United States.

(6) Child and 1 parent born in United States.

(7) Child born in United States, parents and grandparents born elsewhere.

(8) Child, both parents, and 4 grandparents born outside of United States.

(9) All other combinations of nativity.

Estimates of development and posture.—In judging development or nutrition the existing standards of height and weight were not considered. Instead, emphasis was placed on general appearance, condition of the skin, amount of subcutaneous fat, muscle tone, alertness, and vitality. During the examinations nutrition was classed as excellent, good, fair, and poor. It was found, however, that most of the estimates fell in the good and fair classes, few notations being entered in the extreme upper and lower groups. Consequently the numbers with excellent and good nutrition were combined, as were those with fair and poor nutrition. Similarly combinations of types of posture and physical build were also found to facilitate statistical interpretation.

Nutrition.—The percentages of good and fair types of nutrition among the children examined are displayed in Table 3. So far as the examiners were able to estimate, the nutrition of those with normal thyroids was consistently and considerably better than those with enlarged thyroids. Thus, 80.8 per cent of the thyroid-normal boys and 81.8 per cent of the thyroid-normal girls had good physical development, while 70.1 per cent of the thyroid-enlarged boys and

79 per cent of the thyroid-enlarged girls had the same state of nutrition. The same superiority among the thyroid-normal individuals, though slight in some instances, is also apparent in the separate age groups, with the exception of the 15-year old boys and the 11-year old girls.

Table 3.—Percentage of good and fair states of nutrition of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, at each age between 11 and 15 years, and according to presence or absence of thyroid enlargement

0 8	will we to unidefe to oble		Boys		Girls			
Age	Thyrold status	State	e of nutr	ition	State of nutrition			
	Thytota states	Good	Fair	Num- ber of obser- vations	Good	Fair	Num- ber of obser- vations	
11	(Thyroid normal	78. 9 72. 9	21. 1 27. 1	85 70	66. 2 72. 5	33. 8 27. 5	60	
12	Thyroid normal Thyroid enlarged	75. 8 60. 5	24. 2 39. 5	136 81	78. 2 71. 9	21. 8 28. 1	101	
13	Thyroid enlarged	78. 6 66. 6	21. 4 33. 4	159	82. 4 72. 7	17. 6 27. 3	102	
14	Thyroid normal Thyroid enlarged.	84. 3 71. 6	15. 7 28. 4	185 120	94. 3 81. 8	5. 7 18. 2	139	
15	(Thyroid normal Thyroid enlarged	84: 6 85. 9	15. 4 14. 1	169 85	90.3	9. 7 16. 2	155 271	
All ages	Thyroid normal Thyroid enlarged	80. 8 70. 1	19. 2 29. 9	826 515	81. 8 79. 0	18. 2 21. 0	927	

TABLE 4.—Percentage of good, fair, and poor types of posture of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, at each age between 11 and 15 years, and according to presence or absence of thyroid enlargement

	1. 100 1 4 1.9LH	Boys				Girls				
Age Thyroid status			Type of posture				Type of posture			
Age	I hyloridatab	Goed	Fair	Poor	Num- ber of obser- vations	Good	Fair	Poor	Num- ber of obser- vations	
11	Thyroid normalThyroid enlarged	45. 9 42. 9	45. 9 48. 5	8.2	85 70	49. 2 46. 2	38. 5 41. 7	12.3 12.1	65	
12	Thyroid normal Thyroid enlarged	48, 5 38, 3	45, 6 53, 0	5.9 8.7	136	53. 5 46. 1	33. 6 43. 8	12.9	91 101 135 102	
13	Thyroid normal	54. 1	38. 4	7. 5	159	45, 8	38. 3	5. 9	100	
	Thyroid enlarged	49. 1 53. 5	42. 1 39. 5	8.8	114 185	38, 3 53, 2	51. 3 37. 5	9.3	154	
14	Thyroid enlarged	45. 0	44.2	10.8	120	46, 8	36.0	17. 2	192	
15	Thyroid normal	49. 1 52. 9	43, 8 35, 3	7.1	169 85	52. 9 39. 5	31. 6 36. 2	15, 5 24, 3	155 271	
All ages	/Thyroid enlarged	51.0 45.2	42.0 45.2	7.0	828 515	51.0 42.8	37. 0 41. 0	12.0 16.2	649 927	

Posture.—The estimates of good, fair, and poor posture among the children examined are shown in Table 4. Good posture is consistently more frequent among both boys and girls of the several age groups who have normal thyroids. Conversely, fair and poor posture are found more frequently among those with thyroid enlargements.

Age-weight-height relationship.—The weight and height index of nutrition is subject to the limitation that the establishment of a practicable standard and norm is not feasible. Furthermore, if such a norm could be established an individual deviation in weight would not necessarily indicate an actual departure from normal health. However, the defects in a nutrition index do not seriously mitigate against the validity of comparisons between children with and without thyroid enlargement. In the present investigation the index of nutrition devised by Drs. B. T. Baldwin and T. D. Wood was used. The standards consist of average weights of children of each sex, by ages and standing height. In the application of this standard a variation of 10 per cent from the average is usually classed as normal, but anything below this point is said to indicate malnutrition. In Table 5 the percentages of those more than 10 per cent overweight and of those more than 10 per cent underweight are shown. These data have been prepared for thyroid-normal and thyroid-enlarged boys and girls of each age between 11 and 15 years and also for all ages combined. An examination of this table shows that overweight is, with a single exception, more frequent among the thyroid-normal boys and girls. The 11-year old boys with thyroid enlargement appear to have a slightly greater percentage of overweight than do those with normal thyroids.

Table 5.—Percentage of thyroid-normal and thyroid-enlarged children who are more than 10 per cent over and percentage of those who are more than 10 per cent under the Baldwin-Wood weight-height-age standards, according to age and sex

MORE THAN 10 PER CENT OVERWEIGHT

	В	оув	Girls Thyroid status		
Age	Thyroi	d status			
	Normal	Enlarged	Normal	Enlarged	
All ages	17. 0 17. 7 17. 6 22. 0 14. 6 16. 0	10.6 18.5 9.8 4.3 9.1 15.2	21. 7 12. 4 20. 7 25. 5 23. 1 23. 2	14. 7 • 12. 1 12. 5 18. 1 13. 5 15. 4	
MORE THAN 10 PER CENT UN	DERWE	понт		J.	
All ages	10. 9 7. 0 13. 9 10. 7 13. 5 8. 9	12.8 8.6 11.1 13.1 17.5 16.5	19. 9 15. 3 21. 7 27. 5 18. 7 14. 8	24. 6 18. 7 24. 1 22. 1 29. 2 27. 4	

When average underweight is considered it is apparent that children with normal thyroids are less prone to this condition than are thyroid-enlarged individuals. There are two exceptions to this

statement. Greater percentages of 12-year old boys and 13-year old girls with normal thyroids are underweight than are those of the same age with enlarged thyroid glands.

AVERAGE MEASUREMENTS

In a further attempt to distinguish differences between the physical measurements of children with and without thyroid enlargement some averages have been calculated. Thus, in Tables 6 to 15, inclusive, the average standing height, sitting height, chest circumference, chest depth, chest width, vital capacity, head length, head breadth, and head height are displayed, consecutively. The average measurements are given uniformly in each table according to sex for each age between 11 and 15 years. With the exception of the average standing heights, which have been calculated in inches, and the average weights, which have been calculated in pounds, all of the measurements are in the metric system.

Table 6.—Average standing height, in inches, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years and presence or absence of thyroid enlargement

Age		oys	Girls		
		Thyroid status		Thyroid status	
about the continuents to one call	Normal	Enlarged	Normal	Enlarged	
11	55. 4 57. 4 59. 2 61. 9 63. 9	64. 2 57. 1 59. 3 61. 5 63. 9	54.6 57.8 61.4 62.0 62.8	58. 6 58. 6 60. 2 62. 4 63. 1	

Average standing height.—Inasmuch as several investigators have commented upon the fact that individuals with thyroid enlargement are, on the average, taller than those with normal thyroids, a study of standing and sitting heights of the children included in the Cincinnati study is interesting.

According to Table 6 the advantage in slightly greater height lies with the boys without enlargement of the thyroid, the exception being those in the 13-year group. In the 15-year group the measurements are equal. Therefore, it may be concluded that the comparison of measurements of standing heights among the boys fails to reveal marked differences.

The average standing heights of girls with thyroid enlargement are greater than in those without enlargement, the 13-year group being an exception.

Average sitting height.—Definite differences are apparent when comparisons are made of sitting height or stem length of the children examined (Table 7). The sitting height is consistently greater among

both boys and girls with thyroid enlargement, the single exception being the 11-year old boys.

Table 7.—Average sitting height, in centimeters, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years and presence or absence of thyroid enlargement

	В	oys	Girls		
Age	Thyroid status		Thyroid status		
	Normal	Enlarged	Normal	Enlarged	
11 12 13 14 15	71. 6 73. 2 74. 9 77. 8 80. 5	71. 4 73. 5 75. 5 78. 3 81. 1	71. 3 74. 6 77. 2 79. 9 80. 0	73. 4 75. 4 77. 4 80. 2 80. 8	

Average weight.—It is interesting to note in Table 8 that the average weights of girls between 11 and 15 equal or exceed the weights of boys of corresponding ages. When the average weights of thyroid-normal and thyroid-enlarged children are compared it is apparent that those in the former group are consistently heavier. Thyroid-normal boys are, on the average, 5.6 pounds heavier than the thyroid-enlarged boys. All of the thyroid-normal girls are heavier than thyroid-enlarged girls of similar age except in the 11-year group, the average weight superiority of the first named group being 2.4 pounds.

Table 8.—Average weight, in pounds, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years, and presence or absence of thyroid enlargement

	В	oys	Girls		
Age	Thyroid status		Thyroid status		
	Normal	Enlarged	Normal	Enlarged	
	76 86 94 104 117	70. 1 81. 0 90. 2 98. 5 109. 2	73 87 108 114 117	81. 1 86. 6 97. 8 106. 4 110. 0	

The average chest measurements, including circumference, transverse, and antero-posterior measurements, are displayed in Tables 9, 10, and 11. With a few minor exceptions all of the measurements are slightly greater among the children having normal thyroid glands.

Average chest circumference.—An examination of Table 9 shows that the average chest circumferences are slightly greater among the thyroid-normal boys with the exception of those in the 14-year group. Among the girls the average chest circumferences are greater in all of those with normal thyroids except the 11-year group.

Table 9.—Average chest circumference, in centimeters, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years, and presence or absence of thyroid enlargement

Ago		oys	Girls		
		Thyroid status		Thyroid status	
as with the self the about some of the	Normal	Enlarged	Normal	Enlarged	
11	65. 7 68. 3 70. 2 72. 6 75. 8	65. 3 67. 1 70. 1 73. 0 74. 2	64. 1 67. 9 72. 0 74. 5 74. 6	65. 5 67. 5 69. 3 66. 5 73. 1	

Average transverse chest measurements.—The average transverse chest measurements are shown in Table 10. These measurements are slightly greater among the thyroid-normal boys. In the 12-year group the measurements are identical among boys with and without involvement of the thyroid. The average transverse chest measurements are slightly greater among all thyroid-normal girls except those of the 11-year group.

Table 10.—Average transverse chest measurement, in centimeters, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years, and presence or absence of thyroid enlargement

ndown all tigar as the mendality destroys		oys .	Thyroid status		
Ago	Thyroid status				
to all on the see of the again the	Normal	Enlarged	Normal	Enlarged	
11	22. 2 23. 0 23. 8 24. 8 26. 1	20. 3 23. 0 23. 4 24. 6 25. 3	21. 4 22. 8 24. 0 24. 9 25. 3	21. 8 22. 7 23. 6 24. 4 24. 8	

Antero-posterior chest measurements.—It is apparent from Table 11 that the average antero-posterior chest measurements are slightly greater among thyroid-normal boys and girls with the exception of those in the 11-year group.

Table 11.—Average antero-posterior chest measurement, in centimeters, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years, and presence or absence of thyroid enlargement.

Age		d status	Girls Thyroid status		
	Normal	Enlarged	Normal	Enlarged	
11	17. 7 18. 3 18. 8 19. 7 20. 4	18.3 18.0 18.5 19.4 20.1	17. 1 18. 5 19. 0 19. 9 19. 9	17. 2 17. 7 16. 5 19. 1 18. 4	

Average vital capacity.—The average superiority in vital capacity of boys over girls ranges between 0.1 and 0.6 of a liter. These and other data are shown in Table 12. Among the boys the average vital capacity is very slightly greater among the thyroid-normal individuals in the 12, 14, and 15 year groups, equal in the 13-year group, and less in the 11-year group. Collectively, the average vital capacity is slightly greater among the boys with normal thyroids.

Table 12.—Average vital capacity, in liters, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years and presence or absence of thyroid enlargement

	B	oys	Girls Thyroid status		
Age	Thyroi	d status			
	Normal	Enlarged	Normal	Enlarged	
1	2.0 2.3 2.4 2.8 3.1	2.5 2.2 2.4 2.7 3.0	1.9 2.1 2.3 2.6 2.5	1.9 2.1 2.3 2.4 2.5	

The average vital capacity is the same among thyroid-normal and thyroid-enlarged girls of the 11, 12, 13, and 15-year groups. In the 14-year group the average vital capacity is slightly greater among the thyroid-normal girls.

Summarizing, it may be stated that a very slight advantage in increased average vital capacity apparently rests with the thyroid-normal children, a slightly greater advantage being among the boys than among the girls.

Head measurements.—In Tables 13, 14, and 15 average measurements of head length, head breadth, and head height are presented. It will be noted that the head measurements of the boys exceed those of the girls. There are also slight differences in average measurements between thyroid-normal and thyroid-enlarged individuals.

Table 13.—Average head length, in centimeters, of 1,804 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years and presence or absence of thyroid enlargement

	В	oys	Girls		
Age	Thyroi	d status	Thyroid status		
	Normal	Enlarged	Normal	Enlarged	
11	18.1 18.0 18.1 18.3 18.4	18.0 18.0 18.1 18.3 18.3	17.5 17.5 18.5 17.9 17.9	17.5 17.5 17.5 17.6 18.6	

Average head length.—No significant or uniform differences in average head length was noted between thyroid-normal and thyroid-enlarged boys and girls. (Table 13).

Average head breadth.—The differences in head breadth among boys with normal and those with enlarged thyroids, as shown in Table 14, are at no time marked. However, thyroid-normal boys, except those in the 12-year group, have a slightly greater head breadth than have the individuals with enlarged thyroids.

Table 14.—Average head breadth, in centimeters, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years and presence or absence of thyroid enlargement

	В	oys	G	irls
Age	Thyroi	d status	Thyroi	d status
	Normal	Enlarged	Normal	Enlarged
11 12. 13. 14.	14. 5 14. 4 14. 5 14. 5 14. 6	14.0 14.5 14.4 14.4 14.5	14.0 14.2 14.3 14.4	14. 1 14. 3 14. 2 14. 3 14. 3

Among the thyroid-normal girls of the 13, 14, and 15 year groups, the average head breadth is one-tenth of a centimeter greater than among the thyroid-enlarged. In the 11 and 12 year groups the difference just cited is reversed.

Average head height.—In Table 15 it is seen that average head height is slightly greater among the thyroid-enlarged boys. The average head height in each group is the same among the thyroid-normal and thyroid-enlarged girls except in the 12-year group, where it is slightly greater among the latter.

Table 15.—Average head height, in centimeters, of 1,204 white boys and 1,398 white girls in the Cincinnati public schools, according to ages between 11 and 15 years, and presence or absence of thyroid enlargement

August 1 and	В	oys	G	irls	
Age was ken ay was 6	Thyroi	d status	Thyroi	d status	
authors to the bad a control	Normal	Enlarged	Normal	Enlarged	
	14.3 14.1 14.1 14.2 14.2	14.4 14.5 14.1 14.4 14.4	13. 7 13. 7 13. 7 13. 9 13. 7	13. 7 13. 9 13. 7 13. 9 13. 7	

SUMMARY

1. For the purpose of determining the effect of endemic goiter upon physical development, 1,341 white boys and 1,576 white girls were examined in eight Cincinnati public schools.

2. Five hundred and fifteen, or 38.4 per cent, of the boys had some degree of thyroid enlargement, and 927, or 58.8 per cent, of the girls

had such involvements.

3. There were 498 slight, 14 moderate, and 3 marked enlargements among the boys, and 794 slight, 109 moderate, and 24 marked thickenings among the girls. Slight enlargements were one and six-tenths times more frequent among the girls than among the boys. Moderate and marked involvements were approximately eight times more frequent among the girls.

4. Estimates of nutrition and posture, as well as 10 uniform measurements, were made of each child.

5. A record of the birthplace of each child, and of his parents and grandparents was also kept. The data suggest that thyroid enlargement is slightly less frequent among the girls who are native born. The available information on this point among the boys is insufficient for the making of satisfactory deductions.

6. According to the estimates of the examiners, better nutrition and posture were slightly more frequent among thyroid-normal boys

and girls.

7. Considerably greater percentages of thyroid-normal children were more than 10 per cent overweight than were thyroid-enlarged individuals. Underweight was more frequent among thyroid-enlarged children.

8. There was little significant difference between the average standing heights of thyroid-normal and thyroid-enlarged boys. The standing heights of thyroid-enlarged girls were greater than those of

thyroid-normal girls.

9. Average sitting height was consistently greater among boys and girls with thyroid enlargement.

10. The average weights of thyroid-normal boys and girls were

greater than of those having enlarged thyroids.

- 11. Average chest circumferences, transverse, and antero-posterior chest measurements were slightly greater among children having normal thyroid glands.
- 12. There were very slight differences in average vital capacities between thyroid-normal and thyroid-enlarged children; the advantage found in this group apparently resting with the former, the greater advantage being with the boys.

13. There were no significant or uniform differences in head length

between the thyroid-normal and thyroid-enlarged groups.

14. Thyroid-normal boys, except in the 12-year group, had slightly greater average head breadth than had the thyroid-enlarged. The differences were not marked among the girls.

15. The average head height was slightly greater among the thyroid-enlarged boys. Among the girls there were no significant differences.

COMMENT

In interpreting the results of the present investigation it should be recalled that the measurements and estimates were made in a relatively small group of children in a district of moderate goiter prevalence. Moreover, the majority of the children examined had endemic thyroid enlargements of small size.

Despite obvious limitations, the study has apparently shown that children with normal thyroid glands have a definite superiority in certain physical measurements. Consequently it may be assumed that thyroid-normal children are, to some extent, better developed physically. Thyroid-enlarged children, however, appear to have the advantage of slightly greater height, particularly in the sitting position.

Whether the results of this examination of a relatively small number of children indicate a constant, uniform, and significant difference in physical measurements of normal and thyroid-enlarged individuals can be ascertained only by further and more extensive investigations of similar character. Certainly the findings are suggestive and indicate the need for maintaining a normal thyroid gland lest a retarding influence be exerted upon physical growth.

CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT ISSUED JULY 15, 1926, BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT 1

During the spring months cholera spread slowly to all parts of the Indo-Chinese peninsula. At the end of May and the beginning of June the incidence of cases was declining in British India, in Siam, and in southern Indo-China, but the disease was still spreading in the upper part of Indo-China, especially in the Province of Tonking and in Kwang-Chow-Wan, according to the data made available in the Epidemiological Report for July 15, 1926, published by the health section of the League of Nations' Secretariat.

Telegraphic reports from the Singapore bureau for the week ended July 3 reported one case of cholera at Shanghai, China, and the second week after that (July 11-17) 37 cases were reported. According to newspaper reports cholera spread rapidly in the Chinese

From the Office of Statistical Investigations, U. S. Public Health Service.

sections of Shanghai in the beginning of August, and many persons died of the disease.

In British India, cholera deaths declined during May in nearly all the Provinces, and the total number of deaths reported for the four weeks ended June 5 was only 50 per cent of the number reported in the corresponding period of 1926. The Epidemiological Report comments as follows on the cholera situation in the various provinces:

The Punjab, Kashmir, and the North-West Frontier Province were entirely free from cholera; Bombay Presidency, practically free. United Provinces were but little affected, apart from an outbreak in the district of Azamgarh, and only three districts were infected in the Central Provinces. The cholera incidence decreased in May in Bengal, and moderately severe outbreaks were reported in Bihar from the districts Muzaffarpur and Cuttack only. The number of cases reported in Assam was relatively high. The epidemic in the southern part of Madras Presidency continued to decrease; only in the district of Trichinopoly was a certain recrudescence noted in May.

TABLE 1 .- Cholera deaths reported in the Provinces of India

Lill Spice Street	19	1925	
Province	Apr. 10- May 8	May 9- June 5	May 10- June 6
North-West Frontier Kashmir Punjab Delhi United Provinces Bihar and Orissa Bengal Assam Central Provinces Madras Presidency Hyderabad Bombay Presidency Burma Other Indian States	0 0 2 3,0 3,070 3,510 493 124 438 0 1 1,737	0 0 2 0 422 1,745 902 691 178 415 0 551 26	29 4, 059 565 3 166 2, 250 863 247 60 .1, 408 0 1 146 4
Total	8, 767	4, 937	9, 801

The cholera outbreak in Bangkok reached its peak about the middle of May, and the number of new cases steadily diminished throughout June and July. In the last week of July only 5 new cases were reported, as compared with 362 cases in the week ended May 22. For Siam as a whole the figures are not so recent, but the number of cases seems to have reached a maximum in the week ended May 22, when 710 cases were reported, after which a sharp decline occurred, 414 cases being reported in the week ended May 29, 487 cases in the week ended June 5, and 391 in the week ended June 12.

Table 2 shows the number of cases reported from the various provinces of French Indo-China and from Kwang-Chow-Wan by 10-day periods.

Table 2.—Cholera cases reported in French Indo-China and in Kwang-Chow-Wan June 1 to July 20, 1926

		June	July		
Province	1-10	11-20	21-31	1-10	11-20
French Indo-China: Annam	10 175 403 200 1	88 128 489 143 42	30 218 267 381 28	34 181 240 254	34 125 119 241

In the principal ports of the Far East, where cholera outbreaks were reported in the early summer, the situation was greatly improved at the end of July; Saigon and Cholon and Haiphong had no cases in the last two weeks of July; Rangoon reported one death in each of the last two weeks, and Negapatam reported one death the week ended July 24 and none in the last week.

Plague.—"The plague incidence in Egypt increased slightly in June," states the Report; 41 cases were reported during the four weeks ended July 1, as compared with 30 cases during the preceding four weeks, and 21 cases during the first four months of the year. Apart from 4 cases at Suez, the cases occurred in three widely separated Provinces, namely, 21 cases at Beni-Suef and 3 at Girga, in Upper Egypt, and 13 at Beheira in Lower Egypt.

The plague outbreak in Tunisia, referred to last month, apparently reached a maximum in the early part of June and the incidence rapidly declined, although the infection spread from Kairwan Province to the Province of Susa. From the beginning of the outbreak, May 11, to June 31, 157 cases were reported in Kairwan, 14 in Susa, 2 at Kef, and 1 at Sfax. During the first 10 days of July, 6 cases were reported in Kairwan Province and 5 in the Province of Susa.

One case of plague was reported at Constantinople on June 3, one case at Patras, Greece, on June 7, and at Algiers one case was reported in the period June 21 to 30 and one July 1 to 10.

Plague incidence increased markedly in Uganda during April and May. The season of high prevalence is normally from May to September. The cases reported in each week are shown in Table 3.

Table 3.—Plague cases and deaths reported in Uganda, by weeks, from April 4 to June 12, 1926

Week ended-	Number of cases	Number of deaths	Week ended-	Number of cases	Number of deaths
Apr. 10	10 29 29 29 35 58	10 23 24 32 47	May 15	53 67 101 54 82	43 48 64 38 58

In Senegal an outbreak of plague occurred in May, and 129 cases

with 71 deaths were reported, as against 12 cases in April.

In Kenya and Madagascar a slight recrudescence in plague occurred in June. Cases reported in Kenya for the four months March, April, May, and June numbered 81, 37, 40, and 79, respectively. For the same months, cases in Madagascar numbered 186, 103, 26, and 66.

The number of new cases of plague at Baghdad began to decline in the latter part of May; 40 cases were reported in the city in the two weeks ended June 5, as against 83 in the preceding two weeks, and 31 cases were reported in the two weeks ended June 19. Cases were also reported from the surrounding district.

In India the deaths from plague showed a gradual decline during May. The plague situation in the present year has been quite favorable except in the northwestern part of the country, particularly in the Punjab, where 15,350 deaths were reported in the four weeks ended June 5, as against 1,148 in the corresponding four weeks of 1925.

TABLE 4.—Plague deaths reported in India from March to June 1924-1926

Fortnight ended-	1924	1925	1926
Mar. 13	18, 407	8, 696	10, 558
Mar. 27	21, 756	11, 911	14, 229
Apr. 10	25, 656	9,468	18, 345
Apr. 24	30, 916	8,477	17, 435
May 8	24, 877	5, 031	16, 277
May 22	20, 588	1,679	13, 889
June 5	14, 131	938	8,704
June 19	8, 070	1, 084	

In French Indo-China there were 21 cases of plague reported during June in Cochin-China. At Kwang-Chow-Wan 12 cases of plague were reported in May and 18 cases from June 10 to 19. Plague has been reported in several localities in southern China, but none at either Shanghai or Hongkong. At Amoy 90 cases of plague were reported from May 1 to July 10.

At Yokohama three cases of plague were reported in the week ended July 10.

Typhus fever.—The incidence of typhus fever was less during the past winter, on the whole, than during the winter of 1924-25 in eastern Europe, but its seasonal decline in the spring was somewhat retarded and, therefore, in the late spring the incidence became higher than in the corresponding period of 1925 in a number of countries. The report gives the following summary of the situation in eastern Europe:

Typhus was thus but little less in evidence in Poland in May than in April; 437 cases were reported during the four weeks ended June 5, as against 518 cases during the preceding four weeks, and 402 cases during the corresponding period of 1925. Similarly, there were 66 typhus cases in May in Lithuania, as against

68 in April and 40 in May, 1925. The outbreak in Sub-Carpathian Ruthenia has come to an end; only 6 cases were reported in May and 1 during the first half of June. Hungary remained free from typhus except for 1 case. In Rumania 354 cases were reported in April, as against 384 during the previous month and 153 in April, 1925.

In the U. S. S. R., March returns were, in general, low and differed little from those of the previous month with the exception of western Russia, where there was a certain recrudescence of typhus in the Governments of Smolensk, Pskov, and Gomel. Data for White Russia are not as yet available.

Typhus fever cases were reported by the countries in northern Africa as follows: 214 cases in Algeria and 296 cases in Tunisia in the first six months of 1926; 579 cases in Morocco during the first five months; 631 cases in Egypt during the first 20 weeks of the year.

Relapsing fever.—Relapsing fever was rare in Europe outside of Russia during the first half of 1926. In Poland 7 cases were reported in the first 5 months; in Lithuania 2 cases were reported in the same period; and in the Kingdom of the Serbs, Croats, and Slovenes 1 case was reported down to June 14.

In Russia the March reports showed a decrease in cases compared with the preceding two months. The disease has become rare in the northern part of the country, but was more common in the Black Earth district, on the Volga, and in the Caucasus, though no government reported as many as 100 cases in March.

Smallpox.—The smallpox outbreaks in Japan, Kwantung, and South Manchuria were abating at the end of May. In Japan only 31 cases were reported in the week ended June 5, as against 80 and 150, respectively, during the two preceding weeks. In Korea little change in the prevalence of the disease was indicated; 180 cases were reported in May, 168 in April, and 200 in March.

The incidence of smallpox in northern England was decreasing at the end of June, but was higher than that recorded at the corresponding season during any of the last 20 years. Four hundred and fiftysix cases were reported during the 3 weeks ended July 3, as compared with 614 in the preceding 3 weeks.

Enteric fever.—"The incidence of enteric fever was, everywhere in Europe, lower in May than during the corresponding period of 1925," states the Report. In Italy and Germany an increase in incidence was noted in the June reports. During the four weeks ended June 19, 606 cases were reported in Germany as compared with 403 during the preceding four weeks.

In Japan typhoid fever was more prevalent during the first five months of the current year than at the corresponding season for several years past; 14,804 cases of typhoid and 926 paratyphoid cases were reported between January 1 and May 29, as against 11,634 typhoid and 669 paratyphoid cases during the corresponding period of 1925.

Dysentery.—A lower incidence of dysentery was indicated by the reports for May and the early part of June in nearly all European countries.

In Japan the summer rise in dysentery began in May, with 695 cases reported during the four weeks ended June 5 as compared with 292 cases during the preceding four weeks.

Influenza.—A considerable prevalence of influenza in Russia was indicated, with 637,535 cases reported for the whole country in

March, as compared with 316,137 cases in March, 1925.

In previous reports reference has been made to the widespread prevalence of influenza during March and April both in Europe and the United States. Mortality data available show that the number of deaths from this cause declined markedly during May.

Tanganyika Territory reported an influenza outbreak in April,

with 1,200 notified cases.

Acute poliomyelitis.—"Data for the month of May showed a low prevalence of poliomyelitis both in Europe and in the United States, and no summer increase had begun. The incidence was somewhat higher than normal in Australia during the first months of the year, but decreased in May; 135 cases were reported during the first 20 weeks of 1926, as compared with 121 cases during the corresponding period of the previous year. During the same period there were only 9 cases of poliomyelitis in New Zealand, where a serious epidemic occurred in 1925, 1,230 being reported in the corresponding 20 weeks."

Scarlet fever and diphtheria.—Both scarlet fever and diphtheria were declining in incidence during the spring months in countries of the Northern Hemisphere, where the seasonal minimum normally occurs in the summer months.

Puerperal fever.—The Epidemiological Report this month publishes a table showing the cases of puerperal fever notified in the various countries during 1924, 1925, and the first quarter of 1926. In many European countries this disease is notifiable, but an extremely wide range in the incidence is indicated and "it appears that the notification is hardly seriously enforced in more than a small number of European countries."

PASTEURIZATION OF MILK AND THE NONPULMONARY TUBERCULOSIS DEATH RATE IN NEW YORK CITY 1

The practice of pasteurizing New York City's milk was started in 1912. At that time approximately 50 per cent of the milk consumed in New York City was subjected to pasteurization. In 1914 the

¹ From the Weekly Bulletin, August 21, 1926, published by the Department of Health of the city of New York.

pasteurization of all milk, save that grade termed certified, was made obligatory by law. The results of this practice are vividly reflected in our nonpulmonary tuberculosis rates. The table below clearly shows the constantly declining death rate for nonpulmonary tuberculosis.

Nonpulmonary tuberculosis death rates in New York City, 1910-1925

Year	Rate per 1,000 popula- tion	Year	Rate per 1,000 popula- tion
1910	0.29	1918.	0. 24
1911	.30	1910.	. 20
1912	.28	1920.	. 17
1913	.28	1921	. 14
1914	.27	1922	. 15
1918	.27	1923	. 14
1916 1917	. 23	1924 1925	.13

Of even greater significance than the declining death rate for non-pulmonary tuberculosis is the fact that the examination of tuberculous glands of the neck made in the years previous to pasteurization, revealed that in more than 50 per cent the process was due to the bovine bacillus, whereas in only six of 50 specimens obtained since pasteurization has become general; was the bovine bacillus found, and five out of these six cases were from out-of-town patients who had been fed on raw milk.

The subject of pasteurization is now being actively discussed by health authorities. There is a considerable difference as to the degree of temperature to which the milk to be pasteurized should be exposed. Commercial interests and even certain scientists of very high repute oppose an increase in the temperature employed for pasteurization above 142° F. The Conference of State and Provincial Health Authorities of North America meeting with representatives of the United States Public Health Service in Washington, D. C., on May 24, 1926, unanimously agreed upon a temperature of 145° F. maintained for 30 minutes as the standard for pasteurization. Many cities, fearing that a lower temperature does not give an adequate margin of safety, have adopted the 145° F. standard as their legal requirement. The safety of the lower standard-142° F.-which is the legal requirement in New York City, is therefore brought into question. The commercial interests protest against a higher standard as being unnecessary and claim that if the present thermal requirement is raised, it will necessitate the installation of new equipment and increase the cost of milk to the consumer. They agree, however, that safety is the paramount and primary consideration. The Department of Health of the City of New York is committed to the latter principle, and the commissioner of health is now making a careful

but rapid inquiry to make sure whether we are justified in adhering to our present standard, or whether, in the interest of safety, 145° F. should be made the legal standard even at the sacrifice of a little of the cream line.

A decision will be made only after due consideration and study of the opposing viewpoints, and after conference with those who are qualified to give counsel and testimony.

PUBLIC HEALTH ENGINEERING ABSTRACTS

Experiences with Cross Connections in Chicago. Arthur E. Gorman, Chief Sanitary Engineer, Division of Water Safety Control, City of Chicago. Journal of the American Water Works Association, Vol. 15, No. 6, June, 1926, pp. 587-599. (Abstract by Arthur E. Gorman.)

A two years' survey of cross connections in the public water system in Chicago located 491 such connections, 194 of which were of the direct or dangerous type. There were 297 indirect cross connections, such as connections on the suction of pumps, but constituting a relatively low public health risk. The policy followed in Chicago was to require the physical disconnections of direct cross connections, while indirect connections already in existence were permitted where the danger was relatively remote.

The cross connection work was developed with a minimum amount of friction with big industries and with excellent cooperation with the fire underwriters. The sizes of cross connections ranged from

1/2-inch to 18 inches, the more frequent being-

2-inch (21.4 per cent). 3-inch (14.0 per cent). 4-inch (11.6 per cent). 34-inch (10.8 per cent).

Special studies were made of cross connections between private water systems within institutions and the public sewers. Dangerous connections were found between swimming pools and pressure filters used on drinking water systems in private institutions, such as apartment hotels and clubs, on account of the frequent backflow of sewage due to flooding of the main sewers. Several types of cross connections are discussed and illustrated by diagrams.

Pollution Affecting Navigation or Commerce on Navigable Waters. Report from Chief of Engineers, United States Army. House of Representatives Document No. 417, Sixty-ninth Congress, first session, June 4, 1926, 28 pages. (Abstract by J. K. Hoskins.)

This is a report of the Chief of Engineers, "giving the results of the investigation, authorized by section 9 of the oil pollution act, of 1924, of the general subject of pollution affecting navigation or commerce on the navigable waters of the United States or the fisheries therein, together with recommendations for remedial legislation."

Polluting substances contributed to watercourses are divided into two general classes: (1) Domestic sewage and (2) industrial wastes, among the most injurious of which are (a) oil, (b) coal mining, (c) coal distillation, (d) metal trades, (e) pulp and paper mills,

(f) tanneries, (g) textile, (h) miscellaneous.

The source and nature of each of these classes of wastes are briefly discussed, as well as their effect on navigation, commerce, and fisheries. It is stated that, "except in isolated and unimportant instances, the pollution of waters by domestic sewage and industrial wastes does not directly interfere with commerce or commercial navigation." Acid wastes indirectly affect the boilers and hulls of boats and metal parts of locks and dams, necessitating more frequent repairs. Floating oil creates an extra fire hazard but contributes little danger as an origin of fire because it is difficult to ignite. Fisheries are directly affected by toxic products in industrial and oil wastes. Untreated domestic sewage contains little or nothing that is toxic to aquatic life, and the addition of such sewage to the waterways up to a certain pollution density is beneficial to fish life because of the decomposition products, carbon dioxide and nitrates, which stimulate growth of aquatic plants and thereby produce fish food.

A table is included giving a list of navigable and nonnavigable waters into which polluting substances are being deposited to such an extent as to endanger or interfere with navigation and fisheries, the nature of pollution and its effect in each instance being stated in general terms. A summary of the more important findings is given.

Existing Federal laws relating to the pollution of navigable waters are cited, as well as the extent to which each of the States has adopted legislation dealing with pollution in State waters. Interstate agree-

ments for pollution control are briefly mentioned.

The conclusions and recommendations deal with (a) fisheries and (b) commerce and navigation. In regard to fisheries, while certain streams are now too seriously polluted to support fish life, the economic factors involved do not justify prohibition of such pollution, since, as a general rule, "the value of the products of the fisheries is small as compared to the total value of the products of all the industries which use the waters." Should the Federal Government undertake control of pollution generally, it is probable that State and local authorities would tend to relax their efforts both of study and of law enforcement, "with the result that the entire problem would be left to the Federal Government, which would be confronted with the necessity for providing a large organization to cope with the many local problems which would arise," and accord-

ingly no Federal legislation is recommended so far as the effect of pollution of fisheries is concerned. Federal agencies, such as the Public Health Service, the Bureau of Mines, and the Bureau of Fisheries, are available to communities for assistance in studying

their pollution problems.

In regard to the effect on navigation and commerce, Federal legislation for the prevention of pollution by acid mine drainage is not recommended, pending further information on the subject and because the State courts are able to redress individuals or corporations for damages resulting from such pollution. Federal jurisdiction over oil pollution should be extended to include control of such pollution from any source, so that the department may be in a position to cope with all such situations in any of the tidal waters of the United States, as well as those of the Great Lakes. (The act of 1924 applies only to the discharge of oil from oil-burning or oilcarrying vessels).

Studies in Regard to the Lighting of Post Offices, Made by the United States Public Health Service. James E. Ives and Edgar Sydenstricker. Journal of Industrial Hygiene, vol. 8, No. 5, May.

1926, pp. 232-247. (Abstract by Leonard Greenburg.)

This paper presents the results of lighting studies made during the years 1921-1923 in the general and City Hall post offices, New York City. These post offices differ in that in the City Hall office practically the only sources of illumination are artificial, while in the general post office 40 per cent is natural. In both offices the artificial illumination averaged about 3.5 foot candles; but this average is misleading, for the illumination was found to be better in the general post office, due to the natural illumination present. Examination of the vision and eye defects of 2,449 employees in these offices revealed a larger number of defects and a smaller percentage of normal vision in the City Hall than the general post office.

The percentage of normal vision in one or both eyes was found to vary with age, being approximately 75 per cent at 22 years of age and falling to 20 per cent at about 57 years of age. These figures were confirmed by other studies, by the investigators of the United States Public Health Service, on nearly 5,000 native white school boys and nearly 6,500 white industrial workers. It was also found that visual acuity was low at 5 years of age (among the school children) and reached a peak at 18 years. The least change in visual acuity was found to occur between the ages of 25 to 45 years. It was found that those persons doing the most intensive eye work have she poorest vision and the greatest number of eye defects.

Since the comparative studies in the two post offices indicated better vision and fewer defects in the well-illuminated office, it seemed reasonable to suppose that at he City Hall post office more illumination was necessary. Card-sorting studies and tests were therefore inaugurated in order to find the relation between speed of sorting and illumination, it being assumed that the illumination yielding the higher sorting rate would be that which would be best for the eyes. Accordingly, the speed of sorting 1,000 typed white cards under various degrees of illumination ranging from 2.8 to 14 foot candles was determined for three groups of workers having vision of 20/20, 20/20 to 20/30, and 20/30 to 20/40, respectively. It was found that those persons having 20/20 and 20/20 to 20/30 reached their maximum rate of production at 8 foot candles and this, plus a 20 per cent allowance for deterioration (making 10 foot candles), has been suggested as a standard.

The authors discuss the various tests which have been suggested or used for the determination of the sufficiency of illumination. It appears that the rate of production method is one of the most satisfactory methods, and the authors have therefore used this method

in their further studies on lighting.

In the studies on production rates, six series of tests were made under different conditions of illumination, each test of three or four days' duration. The amount of mail sorted by each of eight clerks in the dispatching and in the delivery departments was counted with the illumination varying from 3.3 to 7.7 foot candles. Curves are given for the relation between production rate and illumination.

Several interesting questions are raised at the close of the paper, on which is based the present work of the Public Health Service in these investigations. The two most interesting are (1) the question of why there is a lag in production when illumination is changed, and (2) the determination of ocular fatigue under different degrees of illumination.

DEATHS DURING WEEK ENDED AUGUST 21, 1926

Summary of information received by telegraph from industrial insurance companies for week ended August 21, 1926, and corresponding week of 1925. (From the Weekly Health Index, August 25, 1926, issued by the Bureau of the Census, Department of Commerce)

	Week ended - Aug. 21, 1926	Corresponding week, 1925
Policies in force	65, 099, 898	60, 810, 078
Number of death claims	10, 020	8, 839
Death claims per 1,000 policies in force, annual rate_	8.0	7. 6

Deaths from all causes in certain large cities of the United States during the week ended August 21, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925. (From the Weekly Health Index, August 25, 1926, issued by the Bureau of the Census, Department of Commerce)

Color to Service		ded Aug. 1926	Annual death		under 1	Infant
City	Total deaths	Death rate 1	rate per 1,000 cor- respond- ing week, 1925	Week ended Aug. 21, 1926	Corresponding week, 1925	rate, week ended Aug. 21, 1926 ³
Total (65 cities)	5, 801	10.5	10.8	808	852	3 65
Akron	34			3	7	32
Albany 4	27	11.8	15.0	3	4	63
Atlanta	78			9 5	13	
White	39			- 4		
ColoredBaltimore 4	212	13.7	12.6	34	28	96
White	154			26		90
Colored	58	(3)		8		130
Birmingham	57	14.1	14.2	5	6	
White	23			1	********	
Colored	34	(3)	11,5	37	24	104
BostonBridgeport	177 27	11.7	11.0	2	2	34
Buffalo	117	11.2	11.6	18	18	34
Cambridge	18	11.2 7.7	10.0	4	2	66
Camden	27	10.7	14.2	4	12	68
Canton	17	8.1	6.4	3	3	67
Chicago 4	536	9.2	9.8	58	69	51
Cincinnati	141	17.9	15.5	22 19	16 22	137
Cleveland	164 62	8.9 11.3	8.8	11	14	101
ColumbusDallas	54	14.1	14.8	13	6	101
White	43	****	24.0	12		
Colored	11	(3)		1		
Dayton	25	7.4	9.3	4	5	63
Denver	65	11.9	15.0	1	16	17
Des Moines	26	9.3	6.3	33	0	53
Detroit	201	8.1 10.6	10.4	1	58	22
El Paso	35	16.7	16.4	4	7	
Erie.	25	20. 1	200 2			76
Fall River 4	31	12.3	7.7	7	3 4 5	100
Flint	16	6.1 8.5	8.0		5	17
Fort Worth	26	8.5	9.9	8 7	5	********
White	21			í		
Colored	34	(1)	10, 5	4	7	58
Houston	46	44. 9	40.0	5	6	
White	36			4		
Colored	10	(8)		1		*********
Indianapolis	93	13. 2	10.6	11	6	81
White	80			8 3 5		68
Colored	13	9, 2	7.8	3		160
Jersey City. Kansas City, Kans	56 26	11.6	11.2	9	1	31
White	18	11.0	11. 5	2 2 0		42
Colored	8	(3)				0
Kansas City, Mo	93	12.9	12. 2	12	8	
Los Angeles	196	*******		19	30	53 60 70
Louisville	91	15.3	15.9	7	15	60
White	73 18	(8)		. 6		1
Colored	25	(9)	~~~~~~	5	5	96
Lynn	16	8.0	8.6		2	100
Memphis	49	14.4	20.6	8	12	
White	22			6		
Colored	27 76	(5)		2		
Milwaukee	76	7.7	6.5	15	3	60
Minneapolis	73	8.8	10.3	7	12	36
Nashville 4	39 24	14.8	15.7	4		*********
White	15	(5)	**********	2 2		
New Bedford	22				0	70

See footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended August 21, 1926, infant mortality, annual death rate, and comparison with corresponding week of 1925—Continued

	Week end 21, 1		Annual death		under 1	Infant mortality
City	Total deaths	Death rate 1	rate per 1,090 cor- respond- ing week, 1925	Week ended Aug. 21, 1926	Corre- sponding week, 1925	rate, week ended Aug. 21, 1926 ³
New Haven	22	6.3	6.7	2	3	27
New Orleans	146	18. 2	20.5	19	24	
White	90			11		
Colored	56	(8)		8		
New York	1,070	9.4	9.5	163	141	66
Bronx borough	111	6. 4	7.4	7	13	23
Brooklyn borough	386	9.0	8.7	67	49	68
Manhattan berough	447	12.4	12.3	79	62	87
Queens borough	101	6, 9	6.6	8	10	36
Richmond borough	-25	9.1	12.1	2	7	35
Newark N. J.	87	9.9	9.0	18	14	86
Norfolk	43	12.9	9.6	10	9	186
White	-21	*********		- 5	********	149
Colored	22	(8)		5		249
Oakland.	44	8.8	9.9	6	3	69
Oklahoma City	28	11.4	11.1	6	4 7	42
Omaha	30	10. 9	9.6	1	í	17
	405	10.5	11.0	84	63	72
Philadelphia Pittsburgh	122	10.0	13. 4	26	30	86
Portland, Oreg	63	10.0	10. 1	20	3	20
Providence	63 [11.9	11, 1	11	5	91
Richmond	50	13. 8	10, 9	0	6	113
White	25			-5		98
Colored	25	(8)		4		140
Rochester	. 59	9.6	10.4	5	14	40
St. Louis	163	10. 2	13.5	18	35	
St. Paul	51	10.7	9.3	4	3	36
Salt Lake City 1	32	12.5	11.5	5	1	. 69
San Antonio	60	15. 3	15. 5	18	16	
San Diego	28	13. 3	15.7	1	3	21
San Francisco	151	13.9	11.1	1	9	6
Schenectady	20	11.2	11.2	7	1	202
Somerville	10	5.2	7.9	2 2	2 2	52 47
Spokane	26	12.4	9.1	2	2	- 58
Springfield, Mass	23 42	. 11.9	8.0	- 4	9	51
Tacoma	29	14.3	9.5	1	1	23
Toledo	73	12.0	12.5	11	12	107
Trenton	30	11.7	13.0	2	7	33
Utics	13	6.6	10.8	2	2	44
Washington, D. C	90	8.9	11.1	17	17	97
White	51		22.2	7		58
Colored	39	(8)		10		182
Waterbury	14	.,			1	86
Wilmington, Del.	24	10. 1	0.4	4		117
Worcester	28	7.6	10.4	3	5	35 67
Yonkers	17	7.6	8.3	3	2	67

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Dats for 62 cities.

⁴ Deaths for week ended Friday, August 20, 1926.

⁴ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore, 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Indianapolis 11, Kansas City, Kans. 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by
the State health officers

Reports for Week Ended August 28, 1926

ALABAMA	ARKANSAS—continued
Cases	Cases
Chicken pox 4	Paratyphoid fever
Dengue 1	Pellagra 7
Diphtheria 24	Poliomyelitis 1
Influenza 3	Scarlet fever
Malaria	Smallpox 4
Measles	Trachoma 2
Mumps 11	Tuberculosis 9
Ophthalmia neonatorum 1	Typhoid fever
Pellagra	Whooping cough
Pneumonia 25	
Scarlet fever 14	COLORADO
Smallpox 6	Diphtheria 5
Tuberculosis	Mumps 1
Typhoid fever	Pneumonia 1
Typhus fever 4	Poliomyelitis
Whooping cough	Scarlet fever 9
The state of the s	Tuberculosis
ARIZONA	Typhoid fever
Diphtheria 3	Vincent's angina 6
Mumps 1	Whooping cough
Scarlet fever 2	THE TAX BOY TO SEE SHOW THE SECOND STATE OF TH
Smallpox 1	CONNECTICUT
Trachoma 1	Chicken pox
Tuberculosis 9	Conjunctivitis (infectious)
Typhoid fever 1	Diphtheria 10
Whooping cough	German measles 2
The state of the s	Measles 10
ARKANSAS	Mumps 1
Chicken pox 11	Pneumonia (broncho)
Diphtheria	Pneumonia (lobar) 2
Hookworm diaease	Poliomyelitis 1
Influenza	Scarlet fever
Malaria	Septic sore throat 24
Measles 2	Tuberculosis (pulmonary) 25
Mumps 2	Typhoid fever
Ophthalmia neonatorum	Whooping cough21
Opinimia monaro um consessa danses a	1 11 Holing confinences

(1908)

DELAWARE	ases	n.Linois—continued	'ases
Diphtheria	1	Pneumonia	. 79
Poliomyelitis	5	Poliomyelitis:	
Scarlet fever		Cook County	. 2
Typhoid fever		Edgar County	
Whooping cough	2	Edwards County	
		Lake County	
PLORIDA		La Saile County	
Cerebrospinal meningitis	1	Macon County	
Chleken pox	2	Tazewell County	
Dengue	1	Scarlet fever	
Diphtheria	11	Smallpox	
Influenza	36	Tuberculosis	
Lethargic encephalitis	2	Typhoid fever	
Malaria	23	Whooping cough	134
Measles	10	INDIANA	19.7
Mumps	4	Cerebrospinal meningitis	1
Pneumonia	57	Chicken pox.	
Scarlet fever	5	Diphtheria	
Smallpox	8	Induenza	
Tetanus		Measles	
Tuberculosis		Pneumonia.	4
Typhoid fever	32	Scarlet fever	
Typhus fever	4	Smallpox	11
Whooping cough	7	Tuberculosis	
The second of th		Typhoid fever	
GRORGIA		Whooping cough	
Chicken pox	1		-
Dengue	1	IOWA	-
Diphtheria		Diphtheria	18
Dysentery	6	German measles.	2
Hookworm disease	2	Lethargie encephalitis	1
Influenza	25	Measles	2
Malaria	64	Scarlet fever.	7
Measles	2	Smallpox	1
Mumps	7	Tuberculesis	6
Paratyphoid fever	7	Typhoid fever	7
Pneumonia	8	Whooping cough	20
Poliomyelitis	1	KANSAS	
Scarlet fever	7	Chicken pex	2
Septic sore throat	3	Diphtheria	9
Smallpox	1	Influenza	6
Trachoma	1	Lethargic encephalitis	1
Tuberculosis	12	Measles	.8
Typhoid fever	76	Pneumonia	26
Whooping cough	6	Poliomyelitis:	
IDAHO		Hoisington	1
40.000		Hutchinson	3
Diphtheria.	14	Isabel	-1
Measles	1	Scarlet fever	-9
Poliomyelitis—Garden Valley	1	Smallpox	4
Scarlet fever	1	Tetanus	1
Smallpox	1	Tuberculosis	19
Tuberculosis		Typhoid fever.	37
Typhoid fever	.4	Whooping cough	21
Whooping cough	19	LOUISIANA	4
ILLINOIS	TT.	Diphtheria	5
	23	Influenza	7
Chicken pox		Malaria	30
Diphtheria	50	Pneumonia.	20
Influenza Lethargic encephalitis:	8	Scarlet fever	3
Cook County	1	Smallpox	A
Cumberland County	1	Trachoma	1
Measles	71	Tuberculosis	31

Chicken pox		Dases
Chicken pox	***************************************	. 8
Conjunctivitis		
Diphtheria		
Measles		
Measles		
Mumps		
Scarlet fever		
Septic sore throat		
Tuberculosis	***************************************	49
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Pneumonia (lobar)		
Poliomyelitis 1 Scarlet fever 6 Tuberculosis 94 Typhoid fever 49 Typhoid fever 2 Whooping cough 61 MASSACHUSETTS 7 Cerebrospinal meningitis 1 Chicken pox 15 Conjunctivitis (suppurative) 2 Diphtheria 36 German measles 6 Influenza 5 Influenza 5 Influenza 6 Influenza 6 Influenza 7 Iohicken pox 9 Ophthalmia neonatorum 6 Pneumonia (lobar) 16 Poliomyelitis 7 Totanus 3 Trachoma 2 Tuberculosis (pulmonary) 160 Tuberculosis (other forms) 17 Tuberculosis (other forms) 17 Tuberculosis (other forms) 17 Tuberculosis (other forms) 19 MICHIGAN 15 Measles 16 Minima Neonatorum 16 Michigan 17 Michigan 18 Michigan 18 Michigan 18 Michigan 19		
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Typhoid fever		
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Cerebrospinal meningitis		
Cerebrospinal meningitis		
Chicken pox		-
Conjunctivitis (suppurative)		1/2
Diphtheria 36 German measles 6 Influenza 5 Influenza 6 Influenza 6 Influenza 7 Influenza 7 Influenza 8 Influenza 9 Influenza 1		
German measles 6 Influenza 5 Tuberculosis 1 Typhoid fever 2 Whooping cough 5 Mumps 5 Mumps 6 Chieken pox 5 Mumps 6 Chieken pox 5 Mumps 7 Mumps		
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Lethargic encephalitis		
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Mumps		. 5
Mumps	NEBRASKA	199
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Scarlet fever		2
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Diphtheria 50 Measles 23 Cerebrospinal mening		-
Measles	W JERSEY	14
	oitia	- 1
Pneumonia 19 Chicken	g1010	0
A ALEMAN TO THE PARTY OF THE PA	245T 31216910	47
The state of the s	***************************************	16.1
Smallpox 9 Dysentery		3
		L
Whooping cough 80 Measles 1 Week ended Friday.		31

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4 - (no - medical)

NEW JERSEY—continued Cas	ses	OREGON	2305
Paratyphoid fever	1	Chicken pox	4
Pneumonia	30	Diphtheria	
1 Houmound	28	Influenza	
Dearies to tele	23	Malaria	
1) photo ic reserved	95	Measles	
W hooping cough	-	Mumps	-
NEW MEXICO		Pneumonia	
HEN PLEASO		Scarlet fever	
Malaria	1	Smallpox	
Measles	2		
Mumps	1	Tuberculosis.	- 7
Rabies (in animals)	7	Typhoid fever	
Scarlet fever	1	Whooping cough	•
Tuberculosis	42	PENNSYLVANIA	
Typhoid fever	4		0.1
Whooping cough	7	Anthrax—Philadelphia	
		Cerebrospinal meningitis—Harrisburg	
NEW YORK		Chicken pox	
	- 1	Diphtheria	
(Exclusive of New York City)		German measles.	
Chicken pox	20	Impetigo contagiosa	5
	41	Measles	
Dysentery	4	Mumps	7
	7	Ophthalmia neonatorum-Philadelphia	
German measles	17	Pneumonia	10
	79	Poliomyelitis:	
		Philadelphia	2
	19	Seattering	
Ophthalmia neonatorum	1	Puerperal fever—Hellertown	
	45	Scarlet fever	
1 Onomy Control	52	Tetanus:	0.
DUMINO A TOTAL DESIGNATION OF THE PROPERTY OF	36	Pittsburgh	
Septic sore throat	2		
Tetanus	3	Pottsville	
Trachoma	1	Trachoma—Philadelphia	
Typhoid fever	30	Tuberculosis	
Vincent's angina	6	Typhoid fever.	00
Whooping eough 1	173	Whooping cough	291
		RHODE ISLAND	
NORTH CAROLINA		Diphtheria	2
Chicken pox	8	Scarlet fever	. 6
Diphtheria	-	Tuberculosis	15
German measles	4	Typhoid fever	1
	21	Whooping cough	3
	27		
	7	SOUTH DAKOTA	
Poliomyelitis	_	Cerebrospinal meningitis	1
	14	Diphtheria	
Septic sore throat	4	Measles	
Smallpox	2	Scarlet fever	- 3
- 7 Pares	97	Typhoid fever	4
Whooping cough 1	175	Whooping cough	3
	1	w nooping congressions	
OKLAHOMA		TENNESSEE	33.6
(Exclusive of Oklahoma City and Tulsa)	-	Chicken pox	- 2
(Exclusive of Oktanonia City and I disa)	3	Diphtheria	10
Cerebrospinal meningitis:	-	Dysentery	1
Bryan County	1	Influenza	1
Woods County	1	Malaria	87
	10	Measles	22
	39	Mumps	
Malaria 2	-	Pellagra	- 17
	16	Pneumonia	
	15	Scarlet lever	1112
Pollages	1		
	10		
Scarlet fever	10	Tuberculosis	
Scarlet fever		Typhoid fever	162

Cerebrospinal meningitis	Case	WEST VIRGINIA	enes.	TEXAS
Diphtheria		The state of the s	-	
Influenza			17.5	The second secon
Measles		E-1214	-	
Mumps			-	
Prince			-	
Pollomyelitis	1000			
Scarlet fever. 3 Typhoid fever. 3 Typhoid fever. 4 Whooping cough		The result of the second secon		
Tuberculosis			-	
Typhoid fever			-	
Whooping cough UTAH Cerebrospinal meningitis Chicken pox Diphtheris Measles Measles Typhoid fever Whooping cough VERMONT Diphtheria VERMONT Diphtheria VERMONT Diphtheria Washington Cerebrospinal meningitis: Pierce County Thurston County Cerebrospinal meningitis: Pierce County Thurston County Chicken pox Diphtheria Washington Cerebrospinal meningitis: Pierce County Thurston County Cerman measles Mumps Mumps Truberculosis Typhodi fever Whooping Cough Reports for Week Ended August 21, 1926 DISTRICT OF COLUMBIA Casee Diphtheria Typhodi fever Mooping cough NORTH DAKOTA	4	Whooping cough	4	Puberculosis
Cerebrospinal meningitis	TACK BY		6	Typhoid fever
Chicken pox	HER	WISCONSIN	23	Whooping cough
Cerebrospinal meningitis	+1			TITAN
Chicken pox		Chieken pox		
Diphtheris		Diphtheria		Serebrospinal meningitis
Measies		Measles		Chicken pox
Searlet fever		Mumps	5	Diphtheria
Typhoid fever		Pneumonia	6	Menales
Whooping cough VERMONT Diphtheria Measles Measles Mumps Whooping cough WASHINGTON Cerebrospinal meningitis: Pierce County Thurston County Thurston County German measles Washes Washes Poliomyelitis Scarlet fever Mumps Typhoid fever Whooping cough Washington Crebrospinal meningitis: Measles Mumps Thurston County Thurston County German measles Washington Thurston County Thurston County Thurston County Thurston County Thurston County Scarlet fever Whooping cough Whooping Cough Witoming Chicken pox German measles Typhoid fever Whooping cough Witoming Chicken pox German measles Scarlet fever Whooping cough Witoming Tuberculosis Typhoid fever Whooping cough Tuberculosis Typhoid fever Whooping cough Tuberculosis Typhoid fever Whooping cough Cases Typhoid fever Whooping cough Tuberculosis Typhoid fever Whooping cough Tuberculosis Typhoid fever Whooping cough NORTH DAKOTA Chicken pox	1	Scarlet fever	3	learlet fover
Whooping cough VERMONT Diphtheria Measles Mumps Whooping cough WASHINGTON Cerebrospinal meningitis Pierce County Thurston County Chicken pox Chicken pox Thurston County Cerebrospinal meningitis: Pierce County Thurston County Cerebrospinal meningitis: Pierce County Thurston County Cerebrospinal meningitis Measles Mumps Poliomyelitis Searlet fever Measles Mumps Tuberculosis Typhoid fever Whooping Cough WYOMING Chicken pox Chicken pox Chicken pox Tuberculosis Typhoid fever Whooping cough Reports for Week Ended August 21, 1926 Tuberculosis Tuberculosis Tuberculosis Tuberculosis Tuberculosis Typhoid fever Whooping cough Tuberculosis Tuberculosis Scarlet fever Whooping cough Tuberculosis Tuberculosis Tuberculosis Tuberculosis Tuberculosis Tuberculosis Scarlet fever Whooping cough Tuberculosis North Dakota	2	Tuberculosis	2	Pyphoid fever
Diphtheria			183	Whooping cough
Diphtheria				10 Tel 1 Tel
Measles		And the second s	9	
Mumps	LETT	Corebrospinal maningitis		
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WASHINGTON Cerebrospinal meningitis: Pierce County			10 TO	dumps.
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Thurston County Chicken pox Toliphtheria Ogerman measles German measles Muanps Measles Mumps Toliphtheria Mumps Toliphtheria Mumps Toliphtheria Mumps Toliphtheria Mumps Toliphtheria Mumps Toliphtheria				Pierce County
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Mumps			-	
Mumps 5 Pneumonia 2 Poliomyelitis 3 Scarlet fever 14 Smallpox 11 Tuberculosis 30 Typhoid fever 18 Whooping cough 27 Whooping cough 27 Whooping cough 27 Reports for Week Ended August 21, 1926 DISTRICT OF COLUMNIA Cases Diphtheria 7 Mensles 3 Pneumonia 15 Scarlet fever 4 Tuberculosis 7 Mensles 3 Pneumonia 15 Scarlet fever 6 Tuberculosis 7 Typhoid fever 7 Typhoid fever 8 Whooping cough 14 NORTH DAKOTA				lerman measles
Pneumonia. 2 Poliomyelitis. 3 Scarlet fever. 14 Smallpox 11 Tuberculosis. 30 Typhoid fever. 18 Whooping cough. 27 Whooping cough. 27 Whooping cough. 27 Reports for Week Ended August 21, 1926 DISTRICT OF COLUMNIA Cases Diphtheria. 7 Mensles. 3 Pneumonia. 15 Scarlet fever. 4 Tuberculosis. 7 Typhoid fever. 7 Typhoid fever. 7 Typhoid fever. 15 Tuberculosis. 16 Typhoid fever. 4 Whooping cough. 16 Tuberculosis 16 Typhoid fever. 4 Whooping cough. 17 NORTH DAKOTA Chicken pox. 17 Chicken pox. 18 Chicken pox. 18 Chicken pox. 19				deasles
Poliomyelitis			-	Jumps
Scarlet fever			100	neumonia
Smallpox 11 Tuberculosis 30 Typhoid fever 18 Whooping cough 27 Reports for Week Ended August 21, 1926 DISTRICT OF COLUMNIA Cases Diphtheria 7 Mensles 3 Pneumonia 15 Scarlet fever 4 Tuberculosis Typhoid fever 5 Tuberculosis Typhoid fever 6 Tuberculosis 16 Typhoid fever 4 Whooping cough 14 Chicken pox Cerpan measles Scarlet fever Whooping cough Tuberculosis Typhoid fever 15 NORTH DAKOTA Chicken pox 11 Chicken pox 12 Chicken pox 12 Chicken pox 12 Chicken pox 14 Chicken pox 15 Cerpan measles Scarlet fever Whooping cough 11 Tuberculosis 15 Carlet fever 15 Cases 17 Chicken pox 15 Chicken	STA	The state of the s	3	oliomyelitis
Typhoid fever 18 Whooping cough 27 Reports for Week Ended August 21, 1926 Diphtheria 7 Mensles 3 Pneumonia 15 Scarlet fever 6 Tuberculosis 17 Typhoid fever 7 Typhus fever Whooping cough 14 Whooping cough 14 Chicken pox.	and a	WYORING	14	carlet fever
Typhoid fever 18 Whooping cough 27 Reports for Week Ended August 21, 1926 Diphtheria 7 Mensles 3 Pneumonia 15 Scarlet fever 6 Tuberculosis 17 Typhoid fever 7 Typhus fever Whooping cough 14 Whooping cough 14 Chicken pox.	Service of	Chicken pox	11	mallpox
Whooping cough	2011	German measles	39	uberculosis
Whooping cough	10001	Scarlet fever	18	yphoid fever
Reports for Week Ended August 21, 1926 DISTRICT OF COLUMNIA Cases Diphtheria 7 Mensles 3 Pneumonia 15 Scarlet fever 6 Tuberculosis 7 Typhoid fever 7 Typhus fever Whooping cough 14 Whooping cough 14 Chicken pox.		Whooping cough	27	Vhooping cough
District of Columna Cases Cases Diphtheria 7 Measles 3 Pneumonia 15 Scarlet fever 6 Tuberculosis 16 Typhoid fever Whooping cough Whooping cough 14 Whooping cough 14 Chicken pox.	1133134	the state of the s		1 - 1 - 1 - 1 - 12 - 12 - 12 - 12 - 12
District of Columna Cases Cases Diphtheria 7 Measles 3 Pneumonia 15 Scarlet fever 6 Tuberculosis 16 Typhoid fever Whooping cough Whooping cough 14 Whooping cough 14 Chicken pox.	1 997	ided August 21, 1926	Er	Reports for Week
Cases Tuberculosis Tuberculosis Typhoid fever Typhus fever Whooping cough Tuberculosis NORTH DAKOTA Chicken pox.			-	
Diphtheria	Case	FLORIDA—continued		DISTRICT OF COLUMNIA
Mensles 3 Typhoid fever Pneumonia 15 Typhus fever Scarlet fever 6 Whooping cough Tuberculosis 16 Typhoid fever 4 Whooping cough 14 Chicken pox Chicken pox	3 7776.3	Annual Control of the	111111	Ci Ci
Pneumonia			11/7	
Scarlet fever			75	
Tuberculosis 16 Typhoid fever 4 Whooping cough 14 Chicken pox.			15	neumonia
Typhoid fever 4 NORTH DAROTA Whooping cough 14 Chicken pox.	!	Whooping cough	6	carlet fever
Whosping cough 14 Chicken pox.		The state of the s	16	'uberculosis
		NORTH DAKOTA	4	yphoid fever
	(Chicken pox	14	Vhooping cough
Diphtheria	4	Diphtheria	U.S.	
German measles	- 1	German measles	CE	
Cerebrospinal meningitis 2 Influenza.	I	Influenza	9	archrospinal maningitie
		Leprosy	-	
		Lethargic encephalitis	70 Z 3	
	1912/11/11/19	Measles		
		Pneumonia	3747	
Mumps 1, Poliomyelltis.		Poliomyelitis	-	
Pneumonia 4 Scarlet lever	- 5	Scarlet fever		
Scarlet fever	13:11	Smallpox.	8	
Smallpox		Trachoma	11.1	mallpox

NORTH DAKOTA—continued	1505	Milwankee: WISCONSIN C	ases
		Transfer and trans	
Tuberculosis		Chicken pox	
Typhoid fever		Diphtheria	
Whooping cough	15	Measles Mumps	
SOUTH CAROLINA		Pneumonia	3
		Scarlet fever	
Chicken pox	9	Tuberculosis	-
Dengue	8	Whooping cough	53
Diphtheria	13	Scattering:	-
Hookworm disease	36	Chicken pox	
Influenza	50	Diphtheria	
Malaria	388	German measles	
Measles	1	Influenza	23
	9	Measles	
Paratyphoid fever	1.12	Mumps	11
Pellagra	67	Pneumonia	
Poliomyelitis		Poliomyelitis	1
Scarlet fever	5	Scarlet fever	40
Smallpox	3	Trachoma	2
Tuberculosis	44	Tuberculosis	
Typhoid fever	141	. Typhoid fever	3
Whooping cough	43	Whooping cough.	124

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Cere- bre- spinal menin- gitis	Diph- theria	Influ- enza	Mala- ria	Mea- sles	Pellag- ra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
July, 1928	Elignic	1010	land to	23577 10	mr I	1 1 L	red (F	THE T	K-bi	0108
Alabama	4	33	22	335	308	130	. 3	32	97	417
Idaho	3	11			32		0	28 488	21	13
Illinois	13	232	386	7	1,980		9	488	95	107
Indiana	3	97	27		638		2	171	185	6.5
Kansas	. 5	49	5		180		3	89	-21	- 87
Maine	2	10	2		359	1	0	70	12	
Montana	2	1	11		44		0	41	29 36	1
Michigan	0	. 333	. 5		950		2	641	36	43
Minnesota	5	165	11		596		8	535	5	2
Mississippi	0	41	234	9, 418	326	1, 123	10	25	13	643
Missouri	11	163	5	11	407		0	189	26	152
North Carolina	5	60			606		36	54	101	310
Ohio	001.7	302	12	1	941		16	417	93	8
Oklahoma 1	5	24	87	332	63	139	4	51	16	413
Oregon	3	. 89	52	8	156		1	101	108	42
South Carolina		49	305	1,725	40	615	19	17	46	644
South Dakota	2	29			152		1	115	16	11
West Virginia	6	42	34		391		0	64	45	81
Wyoming		1	1	******	20		0	26	1	2

¹ Exclusive of Tulsa and Oklahoma City.

SMALLPOX IN TEXAS

The State Board of Health of Texas has compiled statistics showing that smallpox is increasing in that State. During the first seven months of 1924, 857 cases of smallpox were reported. During the same period of later years the number of cases was as follows: 1925, 1,228 cases; 1926, 1,668. Dr. H. O. Sappington, State health officer, urges health officers to use every means possible to secure vaccination of citizens, in their respective localities.

³ Including paratyphoid fever.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria—For the week ended August 14, 1926, 38 States reported 699 cases of diphtheria. For the week ended August 15, 1925, the same States reported 881 cases of this disease. Ninety-nine cities, situated in all parts of the country and having an aggregate population of more than 30,200,000, reported 402 cases of diphtheria for the week ended August 14, 1926. Last year for the corresponding week they reported 440 cases. The estimated expectancy for these cities was 534 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-six States reported 1,117 cases of measles for the week ended August 14, 1926, and 461 cases of this disease for the week ended August 15, 1925. Ninety-nine cities reported 332 cases of

measles for the week this year, and 257 cases last year.

Poliomyelitis.—The health officers of 38 States reported 87 cases of poliomyelitis for the week ended August 14, 1926. The same States reported 289 cases for the week ended August 15, 1925.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-eight States—this year, 852 cases; last year, 654 cases; 99 cities—this year, 294 cases; last year, 325 cases; estimated expectancy, 240 cases.

Smallpox.—For the week ended August 14, 1926, 38 States reported 304 cases of smallpox. Last year for the corresponding week they reported 156 cases. Ninety-nine cities reported smallpox for the week as follows: 1926, 40 cases; 1925, 40 cases; estimated expectancy, 27 cases. One death from smallpox was reported by these cities for the week this year—at Portland, Oreg.

Typhoid fever.—One thousand one hundred and fifty-three cases of typhoid fever were reported for the week ended August 14, 1926, by 37 States. For the corresponding week of 1925, the same States reported 1,290 cases of this disease. Ninety-nine cities reported 204 cases of typhoid fever for the week this year and 264 cases for the corresponding week last year. The estimated expectancy for these cities was 229 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia were reported for the week by 94 cities with a population of nearly 29,700,000, as follows: 1926, 292 deaths; 1925, 347 deaths.

that similarly is increasing in that State. During the first soven months of 1924, S.F. diese of smellpox were reported. During the same paroid of later years the number of reserving as follows: 1925, 1925, 1920, 1928. Dr. if O Sappington, State health officers in the exercise to secure vince that in their restaurtive force the to secure vince that in their restaurtive force in the secure vince that in their restaurtive force in the secure vince that in their restaurtive force in the secure vince that in the restaurtive force in the secure vince that it is the secure vince that the secure vince that it is the secure vince the secure vince that it is the secure vince that it is the secure vince that it is the secure vince the secure vince that it is the secure vince vince

City reports for week ended August 14, 1926

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1917 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

100	7 7 3 4		Diph	theria	Influ	enza		1 Nach	
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND	V any	9		7.7			17,78		1
Maine:	11558	41 2	341	10		15		Water !	200
Portland	75, 333	0	1	0	0	0	1	1	me la
New Hampshire: Concord	22, 546		0	0	0	0	2	0	
Manchester Vermont:	83,007	0	. 0	. 0	0	1	0	0	
Barre	10,066	0	0	0	0	0	0	0	
Burlington	24, 089	0	. 0	0	0	0	0	0	114
Massachusetts: Boston	779, 620	. 8	31	5	0	0	- 23	10	
Fall River	128, 993	1	2	0	0	0	0	0	11
Springfield Worcester	142, 065 190, 757	1 0	1 2	0	0	0	0	0	10
Rhode Island:	W. Carlotte	(3)	1 1 1 1		100		0	0	01.50
Providence	69, 760 267, 918	0	0	0	0	0	1	0	W.D. 4
Connecticut:	1 2 2 7	8- 5- 51	103	2 10	1 10	12:00		0	14
Bridgeport	(i) 160, 197	0	4 3	1	. 0	0	1 0	1	30 1
New Haven	178, 927	2	3	0	0	Ö	0	0	1
MIDDLE ATLANTIC	17	3.45	The same						N LE
New York:		177.39	1					1	
Buffalo	538, 016	4	114	84	11	0	12	21	
New York Rochester	5, 873, 356 316, 786	18	4	. 0	0	ô	2	0	8
Syracuse New Jersey:	182,003	1	3	0			19	2	1 Same
Camden	128, 642	0	2	1	0	0	1	1	W.C.
Newark	452, 513	6	8	0	2	0	7	5	
TrentonPennsylvania:	132, 020	0	1	1	2	0		Same Call	
Philadelphia.	1, 979, 364	14	34	24		1	.7	0	14
Pittsburgh Reading	631, 563 112, 707	3	14	6		0	13	0	1
EAST NORTH CENTRAL		3	335	-13				W/10	
Ohio:	Jan - 18		1 13	18		171		0.0 01	
Cincinnati	409, 333	0	5	3	0	0	1	-108	Dane !
Cleveland Columbus	936, 485 279, 836	19	18	31	0	0	2	4	7.11
Toledo.	287, 380	2	2 5	3	Ö	0	2	0	. 1
Indiana:	67 640			0		0	3	0	1
Fort WayneIndianapolis	97, 846 358, 819	0 2 1	2 5	2	0	0	2 3	0	. 1
South Bend	80, 091	1	1	1	0	0	3	0	-
Terre Haute	71, 071	0	. 0	1	0				SHALL
Chicago	2, 995, 239	24	60	35	1	0	64	8	15
Peoria Springfield Michigan:	81, 564 63, 923	0	0	0	0	0	0	0	6
Michigan:		9				1/4			100
Detroit	1, 245, 824 130, 316	10	25	55	0	0	6	0	11
Grand Rapids	153, 698	0	2	ô	0	0	Ö	i	1

¹ No estimate made.

djus useda with some	Harr Turk	Chiek-	Diph	theria	Influ	enta	Men-	men only	Pneu-
Division, State, and city	Population July 1, 1925, estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported
EAST NORTH CENTRAL	ewinder of	Ne laight	e pur si	hoand in	Lieuwi	d and d	mer di	asitrari.	norod nast
Wisconsin:	11 11 11 11 11	i ilgina	Out of all	-	THE PERSON	211,300	17460	delinta d	9012
Kenosha Madison	59, 891 46, 385	2	0	0	0	0	11	. 0	
Milwaukee	46, 385 509, 192	12	10	7	0	0	22	3 2	
Racine	67, 707 39, 671	0	0	3 8	0	0	0	0	
WEST NORTH CENTRAL	and the same	100	100	600	111. 1	Sept.	MAY	25/3	Ship.
Minnesota:	A	91	E. 73	507 E	- 1	100	120		
Duluth Minneapolis	110, 502	0	2	0	0	0	8	0	
Minneapolis St. Paul	110, 502 425, 435 246, 001	7	12 11	6 3	0	0	2 5	0	2
Iowa:						1	1 100	1.000 90	4
Davenport Sioux City	52, 469 76, 411 36, 771	0	0	0	0		0	. 0	
Waterloo	36, 771	0	0	0	0		4	0	
Missouri:	400		8	2		0	0	0	Need
St. Joseph St. Louis	78, 342	0 2	0	0	0	. 0	1	0	14
St. Louis	78, 342 821, 543	2	17	16	0	0	11	. 2	
North Dakota: Fargo	26, 403	0	0		0	0	1	. 0	200
South Dakota:	1 27/15/1		- 7.57	13	4.73	The second		S ALT DON'T	157 14
Aberdeen	15,086 30,127	0	. 0	0	0		. 0	0	
Nebraska:	0 23	10	17		1, 11	TIGHT .		histopol	100
LincelnOmaha	211, 768	0	5	0	0	1 0	1 0	0	MINTOE
Kansas:	. 10	- 31	2	0.1	159	100		his die	49
Topeka	55, 411 88, 367	0	0	0	0	0	0	0	90000 4
SOUTH ATLANTIC	3 8	L	7	172		311	- 37	- Investiga	NO.
SOUTH ATLANTIC	0 0	3	2	- 5		100		morell w	W
Delaware: Wilmington	122,049	0	1	0	0	0	0	. 0	uta -
Maryland:		0							Elikopa)
Baltimore	796, 296	1	11	6.	1	0	24	8	O G I Z
Frederick	796, 296 33, 741 12, 035	0	0		0	0	0	0	14
District of Columbia: Washington	0 01	10		13		0	4	0	Late -
/irginia:	497, 906	0						1973	Circles
Lynchburg Norfolk	30, 395	0			2.5	0	. 0	0	41
Richmond	186, 408	9	4	0 7 0		0	7	1	51
Roanoke	58, 208	0	1	0	0	0	0	0	entert:
Vest Virginia: Charleston	49, 019	. 0	10	0	0	0	0	0	iq.
Huntington	63, 485 56, 208	0	1 0	4	0	0	0	0	17
Wheeling	20, 208	. 0	0	0	0	0	U I		TLAST
Raleigh	30, 371 37, 061	0	1	1	0	0	0	0	
Wilmington Wington-Salem	87, 061 69, 081	0	0	0	0	0	0	0	0
outh Carolina:	180	100	- 44					La Cara A	With the
Charleston	73, 128 41, 225	0	8	0	4	0	0	0	
Greenville	41, 225 27, 311	0	ō	Ü	0	0	0	0	port of
leorgia: Atlanta	(1)		2	4	.12	0	1	0	
Brunswick	16, 809	0	0	0	0	0	0	0.	4-
Savannah	93, 134	0	1	0	1	0	. 0	0	×3.
Miami	69, 754	0			0	0	. 0	0.	10
St. Petersburg Tampa	26, 847 94, 743	0	0			0	1	1	

¹ No estimate made.

	Distilling.		Diph	therin	Influ	enza			-
Division, State, and city	Population July 1, 1925, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sies, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST SOUTH CENTRAL	- 1			* 1		0.579		raping.	W PH
Kentucky:							- 3	1 1	11
Covington Louisville	58, 309 305, 935	0	0 3	0 3	0	0	0	0	0
Tennessee:	1	1111							12
Memphis Nashville	174, 533 136, 220	3 0	2	3	0	0	1	0	
Alabama:			100					100	
Birmingham Mobile	205, 670 65, 955	1 0	2 0	12	0	1 0	0	2 0	4
Montgomery	46, 481	Ů,	1	Ö	0	0	i	0	Ö
WEST SOUTH CENTRAL		V		1000	3	0		1	14
Arkansas:		113.8			F			AUG ISA	maker.
Fort Smith	31, 643	1	0	0	0		0	0	
Little Rock Louisiana:	74, 216	0		0	0	0	0	0	excellence.
New Orleans	414, 493 57, 857	0	6	2	1	2	0	0	9
Shreveport Oklahoma:	31, 331	0	C75	1	0	0	0	0	1
Oklahoma City Texas:	(1)	0	1	0	5	. 0	0	0	3
Dallas	194, 450	0	3	2	0	1	0	0	4
Galveston	48, 375 164, 954	0	0 2 1	0	0	0 0	0	0	7
Houston San Antonio	198, 069	0	1	0	0	0	0	0	0
MOUNTAIN	1 0	h cal	3	m -	0	6-		10.11	58.
Montana:	1 123	-	14	0	70	-	11	10 a. 10	10
Billings	17, 971	14.	0	0	0	0	0		0
Great Falls	17, 971 29, 863 12, 037	0	0	0	0	0	0	0	1
Missoula	12, 668	0	0	0	0	0	0	0	0
Idaho: Boise	23, 642	0	0		0		-	21,7	. 0
Colorado:		0		1	0		0	0	0
Denver Pueblo	280, 911 43, 787	1 0	9	5		0	4	0	4
New Mexico:			1	0	0	0	0	0	2
Albuquerque	21,000	0	1	0	0	0	0	0	1
Phoenix	38, 669	0	0	0	0	0	0	0	1
Utah: Salt Lake City	130, 948	2	2	2	0			7	cr .
Nevada:	. 000	-	-	-	0		3	-	il dien
Reno	12, 665	0	0	0	0	0	0	0	1
PACIFIC		19	10.	1	7			sample da	
Washington:	20.00	-				-			800H14
SeattleSpokane	108, 897	0	3	2 4	0		8	3	
Taeoma	104, 455	3	2 2	3	0	0	2	0	0
Oregon: Portland		1	3						
California:	282, 383			5	0	0	10	0	
Los Angeles	(1)	5	23	24	1	0	6	2	10
San Francisco	72, 260 557, 530	1	13	0	0	0	19	2	0

No estimate made.

1.	Scarle	t fever		Smallpo	X		T	phoid i	lever	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Denths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND					-	- 257					1112
Maine: Portland	0	2	0	. 0	0	0	1	0	. 0	9	14
New Hampshire: Concord	1	0	0	0	0	0	1	0	0	0	9
Manchester	î	2	0	0	0	0	Ô	0	ő	0	10
Vermont: Barre Burlington Massachusetts:	0	0	0	1 0	0	1 0	0	0	0	0	2
Boston	12	19	0	0	0	18	3 2	1	0	44 5	181
Fall River Springfield	0 2	0	0	0	0	0	1	0	0	6	21 17
Worcester Rhode Island:	2	1	0	0	0	6	0	0	0	2	49
Pawtucket Providence Connecticut:	0 2	0	0	0	0	1	0	0	0	0	19 50
Bridgeport	2	3 3	0	0	0	1 2	1 1 3	2	0	2	29 22
New Haven	î	0	ő	0	0	3	8	2	ō	3	31
MIDDLE ATLANTIC							7. 1				
New York: Buffalo New York Rochester Syracuse	5 25 3 2	37 0 0	0 0 0	0 0 0 0	0 0 0	1 103 2 0	3 39 1 0	1 34 2 0	0 4 0 0	14 69 10 11	109 1, 107 59 43
New Jersey: Camden Newark Trenton	1	4	0	0	0	2 6 7	2 2 1	1 2	0	1 56 0	33 85 31
Pennsylvania:	1			0						THE SAME	
Philadelphia Pittsburgh Reading	16 9 1	7 3 0	0 1 0	0	0	26 6 3	12 3 1	3 2 1	0 0	51 54 18	381 130 33
EAST NORTH CENTRAL					- 1	-				- 90	91
Ohio:						100					1.55
Cincinnati Cleveland Columbus Toledo Indiana:	2 6 2 4	9 3 5	1 1 1 1	0 0 0 4	0 0 0	11 11 4 8	3 5 2 2	4 2 0 1	0 0 0	3 94 5 42	137 173 68 50
Fort Wayne Indianapolis South Benć Terre Haute	1 2 1 0	1 0 0	1 1 0 0 0	0 2 0 0	0 0 0	3 6 0 1	1 2 0 1	1 2 0 0	0 0	16 4 0	23 104 7 16
Illinois: Chicago	25	25	0	0	0	43	6	7	. 2	57	497
Peoria Springfield Michigan:	0	0 2	0	0	0	0	0	0	0	8	20
Detroit	20 3 1	23 4 1	3 0	0	0	24 1 0	5 1 1	11 0	0 0	75 6 2	261 20 32
Wisconsin:		1									
Kenosha Madison	0 .	0	0 -	0	0	0	0	1	0	10	10
Milwaukee Racine Superior	7 1 1 1	3	0 -	0	0	0	0 0 0	0 1 0	0	86	80
WEST NORTH CENTRAL					-					-	
Minnesota: Duluth Minneapolis St. Paul	3 9 5	6 13 6	0 2 1	0	0	2 6 5	1 2 1	0 2 1	0	1 2 14	21 75 47

¹ Pulmonary tuberculosis only.

	Scarle	t fever	30	Smallp	OX.	m	T3	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy		Cases, esti- mated expect- ancy		Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL-contd.				1		1		The state of		17.11	.011
Iowa:										C Har	793 -
Davenport Sioux City	0	0	0	0			0	0		0	
Waterloo	1	0	0	0	********		0	4		0	V 197
Missouri:) noger	DATE OF
Kansas City St. Joseph	2	1	0	0	0	7	3	2	0	6	1117 80
St. Louis	0 5	1 21	Ö	1	ő	15	1 7	0 2	. 0	20	218
North Dakota:		2				0	0	0	0	5	In .
Fargo South Dakota:	1		0	1	0					. Islandigi	mint.
A berdeen	0	0	0	0			0	0		0	111
Sioux Falls Nebraska:	0	******	0				0				27
Lincoln	0	0	0	0	0	0	0	0	1	2	17
Omaha	1	5	1	0	0	1	0	0	0	3	40
Kansas: Topeka	1	1	0	0		0	1	0	0	3	17
Wichita	ō	2	i	0	0	0	2	ő	0	15	25
SOUTH ATLANTIC				31	0.9					2.74	uhal/
Delaware:				0 1		1				50	Market Company
Wilmington	1	0	0	. 0	0	1	1	0	. 1	1	24
Maryland: Baltimore	6	3	0	0	0	14	9	12	1	97	186
Cumberland	0	1	0	0	0	0	1	1 0	0	0	
Frederick	0	0	0	0	0	0	0	0	0	0	mil 4
District of Colum- bia:										1. 3. 1	
Washington	3	2	0	2	0	16	5	3	1	19	130
Virginia: Lynchburg	0	1	0	0	0	0	1	9	0		12
Norfolk	1 2	3	0	0	0	1	2		i	15	-
Richmond		3	0	1	0	3	3	2 0	0	0	71
Roanoke West Virginia:	0	1	0	1	0	1	2	0	0	0	14
Charleston	0	0	0	1	0	1	2	0	0	. 5	19
Huntington	1	0	0	0	0	0	1	0	0	0	
North Carolina:	-	0	1		0	0	-1	0	0	0	1103
North Carolina:	0	0	0	0	0	1	1	0	0	. 21	14
Wilmington Winston-Salem	0	0	0	0	0	1	3	0 2	0	14	19
South Carolina:				- 31	1		0		. "	P. Barcon	dues *
Charleston	0	0	0	0	0	3 0	3	3	1	0	30
Columbia	0	1 0	0	0	0	0	2	0	0	0	9
Georgia:						Ser Iting			1		
Atlanta Brunswick	0	0	1 0	0	0	5	4	10	0	1	81
Savannah	0	0	1	0	0	0	2	0	0	0	27
Florida:		UU. C	0.00	1	a Post In		- 1	1			
Miami. St. Petersburg.	0 .	0 .	0 .	0	0	1 .	0	3	0	2	17
Tampa.	0	1	0	0-	0	1	1	6	2	0	38
EAST SOUTH CENTRAL									abre	wing altern	12 M
Kentucky:	. 0	3	1	39	12	11		1		Maltal	
Covington Louisville	0	8	0	1	0	5	1	- 0	. 0	0	23
Louisville	1	8	0	0	0	5	5	6	0	Contract	60
Memphis	1	1	0	2	0	4	6	10	Sec. 1	18	78
Nashville	1 1	1 2	0	0	0	4	7	8-	Tratt	18	49
Alabama: Birmingham		1	6	97	0		7		0	11	75
Mohile.	0	0 0	0	0	01	1	il	2	0	8	19
Montgomery.	11	01	01	01	01	0	11	- 11	01	01	. 16

	Scarle	t fever	. 1	Smallp	ox	Tuber-	T	phoid i	lever	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy		Deaths re- ported	eulosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL									7		
Arkansas: Fort Smith Little Rock	1 0	0	0	0	0	<u>i</u>	1 3	0	0	0	
New Orleans Shreveport Oklahoma:	1 0	0	0	5	0	9	5 3	1	1 2	0	143
OklahomaCity Texas:	1	2	0	0	0	1	2	4	0	0	22
Dallas	0 0 0	0 0	0 0	0	0 0 0	5 1 1 0	0 1 1	0 4 4	0 0 0	3 0 0	55 14 50
Montana: Billings Great Falls Helena	0 1 0	1 0 0	0 0	0 8 0	0 0	0 0 1	0 0	0	0	2 0	10
Missoula Idaho:	6	0	0	0	0	0	0	0	0	0	5
Boise	2	1 2	1	0	0	0	0 2	0	0	0	70
Pueblo New Mexico:	ĩ	ē	•	Ö	Ö	ō	ī	3	. 0	0	12
Albuquerque Arizona:	0	0	0	0	0	6	1	0	0	-	20
Phoenix Utah:		0	0	0	0	5	0	0	0	0	14
Salt Lake City Nevada: Reno	0	0	0	0	0	0	0	3	0	19	20
PACIFIC					7				-	27034C	12
Washington:	- 6					3				- 19	1000
Seattle	3 2 1	5 5	2 2 1	0 8	0	1	0	0	0	13 5 3	24
Oregon: Portland California:	2	9	5	4	1	4	1	1	0	1	75
Los Angeles Sacramento San Francisco.	6 1 5	11 1 6	0 0	0 0	0	33 2 5	5 1 2	6 5	0 0	2 0 3	190 16 113
e 10 10				brospin ningitis		hargie phalitis	Pe	llagra		nyelitis paralys	
Division, Stat	e, and e	ity	Case	Deati	hs Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENG	GLAND									1	
WX			0	1	0 1 0 0 0 0	0 0 1	0 0	0	0	8	101
Providence		*******	0		2 0	0	0	0	1	1	. 0
New York: Buffalo New York			0	1.5	0 1	1 2 0	. 0	0	7	3	2 0 3
Syracuse Pennsylvania: Philadelphia			0	NE S	0 0	0	0	. 0	2 343	3	, 0

arom tood samual santon	Cerel	orospinal ingitis	Let	hargie phalitis	Pe	llagra	Polion tile	yelitis paralys	(infap-
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Death
EAST NORTH CENTRAL	10, 30	A LOUGH	u 53	DS-1 MO	1111	aftile at	is val	0/1	The state
Ohio: Cleveland 1	0	0	1	. 0	0	0	1	2	- 1
Illinois: Chicago	1 PRINT	0	0	0	1	1		0	
Wisconsin: Milwaukee		1	0	0	0	0	0	0	
WEST NORTH CENTRAL					100	100			
Missouri: Kansas City	0	0	1	1	0	0	0	0	
Kansas: Topeka	1	0	0	. 0	0	0	0	0	
SOUTH ATLANTIC	1	The state of	100	2 .	1 1			-720	
Maryland: Baltimore Cumberland	0	0	1	0	0	0	. 1	3 0	TABLE S
Vinginia:	0	0	1	0	0	0	0	Frent's	of the in
Richmond	0	0	0	0	0	0	0	1	12.14
North Carolina: Raleigh Winston-Salem South Carolina:	0	0	0	0	0	0	0	0	Tall but
Charleston	0	0	0	0	19	3	0	0	-
Savannah	0	0	0	0	0	0	0	1	
Miami 1	0	0	0	0	0	0		1	1
EAST SOUTH CENTRAL	1881	(0)	1384	2 (MI)	1992	2.0		Militar	CL WILL
Tennessee: Nashville	0	0	0	0	0	1		0	A Day
Birmingham Mobile	0	0	0	0	1 0	0	0	0	ger in the
Montgomery	0	0	0	0	0	0	0	1	County I
Arkaneae		1						1	-
Little Rock	0.	0	0	0		. 1	0	.0	
-Dallas	0	0	0	0	0	1	0	0	
Montana:	2			- 1	100			lue/sus	or west
Montana: MissoulaUtah:	1	. 0	0	0	0	0.	9	0	or other
Salt Lake City	1	0	0	0	0	0	0	0	
California: Los Angeles 1	0	. 0	0	1	0	0	April	3	in the M
Sacramento	0	0	Ö	ô	ĭ	0	Ô	0	1000

Rabies (human), I case and I death at Cleveland, Ohio, and I death at Los Angeles, Calif.
 Dengue, I case at Miami, Fla.

The following table gives the rates per 100,000 population for 102 cities for the five-week period ended August 14, 1926, compared with those for a like period ended August 15, 1925. The population figures used in computing the rates are approximate estimates as of July 1, 1925 and 1926, respectively, authoritative figures for many of the cities not being available. The 102 cities reporting cases had

an estimated aggregate population of nearly 30,000,000 in 1925 and nearly 30,500,000 in 1926. The 96 cities reporting deaths had more than 29,250,000 estimated population in 1925 and more than 29,-750,000 in 1926. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, July 11 to August 14, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925 1 DIPHTHERIA CASE RATES

e de la companya della companya della companya de la companya della companya dell					Week e	nded-				
	July 18, 1925	July 17, 1926	July 25, 1925	July 24, 1926	Aug. 1, 1925	July 31, 1926	Aug. 8, 1926	Aug. 7, 1926	Aug. 15, 1925	Aug. 14, 1926
102 cities	76	194	75	* 90	175	180	4 83	¥ 79	77	• 66
New England. Middle Atlantic. East North Central West North Central. South Atlantic. East South Central. West South Central. Mountain. Pacific.	60 96 68 83 50 11 26 120	78 101 100 107 32 21 26 100 159	60 90 63 103 42 11 66 111	33 -109 99 195 34 10 39 64	60 92 69 97 48 11 40 148	40 108 83 85 21 21 39 91	79 83 94 105 52 26 22 11 66 141	40 88 7 105 1 52 10 46 10 11 35 17 121 102	89 78 68 107 69 32 48 157	31 62 7 101 8 56 46 57 26 78
		MEAS	SLES (CASE	RATES				100	The same
102 cities	153	1 215	101	1 155	170	2 103	451	1 67	46	• 57
New England	252 198 178 28 140 74 0 28 61	180 129 365 191 203 171 17 191 329	208 127 111 18 90 58 4 37 19	109 108 243 183 128 125 13 173 213	180 77 68 30 68 26 0 102 33	83 63 171 193 115 98 9 127 121	127 69 44 10 42 11 0 11 19 28	83 42 7 96 2 58 10 50 42 11 10 12 139 121	125 57 35 24 40 16 9 18 19	66 33 7 77 66 83 31
	SCA	RLET	FEVI	ER CA	SE RA	TES		4		.1.
102 cities	58	193	55	183	1 54	173	+ 51	• 61	57	• 51
New England	77 45 63 105 44 74 22 83 58	99 73 118 185 45 52 52 91 94	69 42 63 115 15 26 31 157 44	85 75 93 127 36 93 82 64 92	72 37 60 121 34 58 26 83 47	118 52 85 1143 34 62 39 36 86	98 33 48 117 21 58 53 13 38 61	104 38 779 101 6 40 31 11 15 12 65 84	81 36 54 129 38 37 66 92 83	69 30 7 56 9 121 30 47 222 36

¹ The figures given in this table are rates per 100,000 population, annual basis—and not the number of uses reported. Populations used are estimated as of July 1, 1925 and 1926, respectively.

2 Sioux Falls, S. Dak., not included.

3 Tampa, Fla., not included.

4 Waterloo, Iowa, and Helena, Mont., not included.

5 Madison, Wis., Sioux Falls, S. Dak., Norfolk, Va., Houston, Tex., and Helena, Mont., not included.

6 Madison, Wis., sloux City, Iowa, and Sioux Falls, S. Dak., not included.

7 Madison, Wis., not included.

8 Waterloo, Iowa, not included.

8 Waterloo, Iowa, and Sioux Falls, S. Dak., not included.

Waterioù, Jowa, not included,
 Sloux City, Iowa, and Sloux Falls,
 Norfolk, Va., not included.
 Houston, Tex., not included.
 Helena, Mont., not included.

Summary of weekly reports from cities, July 11 to August 14, 1926—Annual rates per 100,000 population—Compared with rates for the corresponding period of 1925—Continued

	CASE	

all property	-			110.55	Week e	nded-			1,19	
	July 18, 1925	July 17, 1926	July 25, 1925	July 24, 1926	Aug. 1, 1925	July 31, 1926	Aug. 8, 1925	Aug. 7, 1926	Aug. 15, 1925	Aug. 14, 1926
102 cities	14	. 17	10	16	19	25	49	37	. 7	. •7
New England Middle Atlantic East North Central West North Central South Atlantic. East South Central. West South Central Mountain. Pacific.	16 .8 42	0 1 6 226 6 5 13 9	5 0 8 12 15 37 4 0	0 0 8 214 6 10 13 27	0 0 3 14 3 2 21 4 55	0 1 6 24 2 5 4 9 32	0 0 6 18 2 47 13 11 19 64	0 1 79 214 108 16 11 15 12 9 24	0 0 3 16 2 21 9 9	0 0 71 94 11 26 22 73
	TY	PHOII	FEV	ER CA	SE RA	TES			ante	
102 cities	36	1 22	33	118	2 40	* 30	140	1 28	46	* 35
New England Middle Atlantic East North Central West North Central South Atlantic East South Central Most South Central Most South Central Mountain Pacific	31 25 11 42	12 11 5 14 58 166 56 0 22	22 21 8 38 50 163 163 46 28	9 9 6 112 47 135 30 46 8	22 30 10 46 3 64 168 154 55 44	14 23 10 222 54 259 47 36 11	26 23 20 411 56 252 123 1104 17	112 19 7 12 3 18 10 70 182 11 50 13 28 30	38 33 17 55 86 200 97 102 41	17 24 7 19 23 100 140 47 73 30
Establish The	11	NFLUE	NZA I	DEATH	RATE	s				
96 cities	2	14	2	* 13	11	12	11 2	12	2	11
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	0 2 3 0 4 0 10 0 4	0 4 4 20 6 21 9 9	0 3 1 4 4 5 0 9	2 2 4 12 4 5 9 9	0 1 0 0 22 0 0 0	0 1 1 20 2 5 24 0 4	5 2 3 0 6 5 5 11 0	0 2 71 20 10 4 0 11 6 12 9 11	0 3 3 0 0 5 0 9	0 1 10 12 0 10 14 0
	P	NEUM	ONIA I	DEATE	RATI	ES			tion o	
96 cities	164	2 60	48	2 54	3 59	2 48	12 52	5 54	60	13 50
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	53	57 74 46 236 54 109 85 36 46	50 51 37 40 52 58 63 55 58	33 64 46 240 58 99 57 64 35	53 65 48 40 3 60 68 116 74 62	33 41 48 2 57 51 62 76 55 71	36 65 36 51 50 63 68 11 28	54 56 7 42 2 51 10 70 52 11 101 12 65 57	29 73 47 42 73 58 82 55 80	31 62 735 125 56 52 113 82 39

Pacific

² Sioux Falls, S. Dak., not included.

³ Tampa, Fla., not included.

⁴ Waterloo, Iowa, and Helena, Mont., not included.

⁵ Madison, Wis., Sioux Falls, S. Dak., Norfolk, Va., Houston, Tex., and Helena, Mont., not included.

⁶ Madison, Wis., Sioux City, Iowa, and Sioux Falls, S. Dak., not included.

⁷ Madison, Wis., not included.

⁸ Waterloo, Iowa, not included.

⁸ Sioux City, Iowa, and Sioux Falls, S. Dak., not included.

⁸ Norfolk, Va., not included.

⁸ Holena, Mont., not included.

⁸ Helena, Mont., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1925 and 1926, respectively

Group of cities	Number of cities reporting	Number of cities reporting	Aggregate of cities cases.	population reporting	Aggregate of cities deaths	population reporting
	cases	deaths	1925	1926	1925	1926
Total	102	96	29, 930, 185	30, 458, 186	29, 251, 658	29, 764, 201
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	12 10 16 13 21 7 8 9 6	12 10 16 11 21 7 6 9	2, 176, 124 10, 346, 970 7, 481, 656 2, 580, 151 2, 716, 070 993, 103 1, 184, 057 563, 912 1, 888, 142	2, 206, 124 10, 476, 970 7, 655, 436 2, 619, 719 2, 776, 070 1, 004, 953 1, 212, 057 572, 773 1, 934, 084	2, 176, 124 10, 346, 970 7, 481, 656 2, 461, 380 2, 716, 070 993, 103 1, 078, 198 563, 912 1, 434, 245	2, 206, 124 10, 476, 970 7, 655, 436 2, 490, 036 2, 776, 070 1, 004, 953 1, 103, 495 572, 773 1, 469, 144

FOREIGN AND INSULAR

SMALLPOX ON VESSEL

Steamship from Glasgow, Scotland.—On July 17, 1926, a steamship arrived at Greenock, Scotland, from Canada, with history of a small-pox case removed from the vessel at a quarantine station on the vessel's outward journey from Glasgow to Canadian port. The vessel left Glasgow June 25 and the patient, a resident of Glasgow, was taken ill July 2, 1926. No history of smallpox in the patient's family was discovered, but it was found that four cases of chicken pox had occurred in the family and a small school epidemic of chicken pox had occurred in the district.

THE FAR EAST

Report for week ended July 31, 1926.—The following report for the week ended July 31, 1926, was transmitted by the far eastern bureau of the health section of the secretariat of the League of Nations, located at Singapore, to the headquarters at Geneva:

	Plague Cholera Small-		Plague		Cholera		Small- pox						
Maritime towns	Cases	Deaths	Cases	Deaths	Cases	Deaths	Maritime towns	Cases	Deaths	Cases	Deaths	Cases	Deaths
Egypt: Alexandria Suez Suez British India: Bombay Madras Rangoon Karachi Ceylon: Colombo	2 2	0 0 1 0 7 0 0	0	0 0 1 0 1 0 0	5 0 8 3 0 1 1	1 0 7 1 0 1	Siam: Bangkok China: Amoy Shanghai Japan: Yokohoma 1 Osaka U. S. S. R.: Vladivostok.	5 0 1 0 0	0 2 0 0	5 0 314 0 0	4 0 60 0 0	9 0 0 0 1 1	

¹ One infected rat has been found outside of the port area.

Telegraphic reports from the following maritime towns indicated that no case of plague, cholera, or smallpox was reported during the week:

ASIA

Iraq.—Basra.

British India.—Negapatam, Chittagong, Cochin, Tuticorin, Vizagapatam.

Federated Malay States.—Port Swettenham.

Straits Settlements.—Penang, Singapore.

Dutch East Indies.—Batavia, Surabaya, Samarang, Cheribon, Belawan Deli, Palembang, Sabang, Makassar, Menado, Banjermasin, Balik-Papan, Tarakan, Padang, Samarinda.

7236°-26†-4

Sarawak.-Kuching.

British North Borneo. - Sandakan, Jesselton, Kudat, Tawao.

Portuguese Timor .- Dilly.

Philippine Islands.-Manila, Iloilo, Jolo, Cebu, Zamboanga.

French Indo-China. - Saigon and Cholon, Turane, Haiphong.

China .- Hongkong.

Formosa.-Keelung.

Kwantung.-Port Arthur, Dairen.

Japan.-Nagasaki, Moji, Kobe, Niigata, Tsuruga, Hakodate, Simonoseki.

Korea.—Chemulpo, Fusan.

Manchuria.—Antung, Mukden, Changehun, Harbin.

AUSTRALASIA AND OCEANIA

Australia.—Adelaide, Melbourne, Sydney, Brisbane, Rockhampton, Townsville, Port Darwin, Broome, Fremantle, Carnarvon, Thursday Island.

New Guinea .- Port Moresby.

New Zealand.—Auckland, Wellington, Christchurch, Invercargil, Dunedin.

New Caledonia,-Noumea.

Fiji.-Suva.

Hawaii.-Honolulu.

AFRICA

Egypt .- Port Said.

Anglo-Egyptian Sudan.—Port Sudan, Suakin.

Eritrea .- Massaua.

French Somaliland .- Jibuti.

British Somaliland.—Berbera.

Italian Somaliland.-Mogadiscio.

Kenya.-Mombasa.

Zanzibar. - Zanzibar.

Tanganyiki.—Dar-es-Salaam.

Seychelles .- Victoria.

Mauritius .- Port Louis.

Portuguese East Africa. - Mozambique, Beira, Lourenço-Marques.

Union of South Africa. - Durban, East London, Port Elizabeth, Cape Town.

Reports had not been received in time for distribution from:

British India.—Calcutta.

Dutch East Indies .- Pontianak.

Madagascar.—Tamatave, Majunga.

CANADA

Communicable diseases, week ended August 14, 1926.—The Canadian Ministry of Health reports cases of certain communicable diseases in seven Provinces of Canada for the week ended August 14, 1926, as follows:

Disease	Nova Scotia	New Bruns- wick	Quebec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	Total
Cerebrospinal fever		191.11/1	1		pp	March	red E	1111
nfluenza	10			2				(trust)
Smallpox Cyphoid fever	1		6	11	5	1	7	20.0

Communicable diseases—Ontario—July, 1926—Comparative.—During the month of July, 1926, communicable diseases were reported in the Province of Ontario, Canada, as follows:

	Jul	y, 1926	Jul	July, 1925		
Diseasê .	Cases	Deaths	Cases	Deaths		
Cerebrospinal meningitis	6	3		4		
Chancroid	1		1			
Chicken pox	503		330			
Diphtheria	183	14	151	19		
German measles.	150		6			
Gonorrhea.	131		144			
Influenca		10				
Lethargic encephalitis	5	4		10		
Measles.	1, 955	8	642	-		
Mumps	37		108			
Pneumonia		137	200	77		
Poliom velitis	******	101	4			
Scarlet fever	289	3	252	3		
Smallpox	41	Mary Service	8			
Syphilis	118		65			
Tuberculosis	177	72	158	82		
	57		57	3		
Typhoid fever	325	3	345			

Smallpox.—Smallpox was reported at 12 localities in the Province of Ontario, the greatest number being reported at MacTier and Peterboro, viz, 9 each; and at Belleville, with 6 cases; at Kingston and Parry Sound, 4 cases each were reported; at Ottawa and Richmond Township, 2 cases each; and at 5 localities, including Toronto, 1 case each.

CHINA

Morbidity-Mortality-Shanghai-July 1, 1925-June 30, 1926.-During the year ended June 30, 1926, there were reported at Shanghai China, 10,816 deaths among Chinese and 554 deaths in the foreign population. Cases of disease and causes of death were reported as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Beriberi Cerebrospinal meningitis. Cholera Diarrhea (acute) 1. Diphtheria. Dysentery 1. Influenza	6 2 23 36 81	34 6 93 29 98 159 28	Measles 1 Scarlet fever Smallpox Tuberculosis 1 Typhoid fever 4 Typhus fever	106 82 52 88 1	332 556 205 996 347

Examination of rats.—During the same period, 28,114 rats were examined at Shanghai for plague infection. No plague-infected rats were found.

¹ Not notifiable.

² Amebic, 38; bacillary, 43.

Including 20 paratyphoid cases.

Population: Foreign, 38,046; Chinese, 1,098,065. Cases reported, foreign; deaths, Chinese.

Arrivals from Canton subject to quarantine.—Under date of July 26, 1926, vessels arriving from Canton were declared subject to quarantine in the port of Shanghai on account of cholera.

CUBA

Communicable diseases—Habana—July, 1926.—During the month of July, 1926, communicable diseases were reported at Habana, Cuba, as follows:

Disease	New	Deaths	Remaining under treatment July 31, 1926	Disease	New	Deaths	Remaining under treatment July 31, 1926
Cerebrospinal meningitis Chicken pox Diphtheria Malaria	1 2 9 84	1 1 3	34	Measles Paratyphoid fever Searlet fever Typhoid fever	24 3 6 57	12	25 2 4 4 43

¹ Many of these cases from the interior.

GREAT BRITAIN (SCOTLAND)

Further relative to typhus fever—Glasgow.¹—Under date of August 3, 1926, seven cases of typhus fever were reported at Glasgow, Scotland. Later information showed that the occurrence was in persons belonging to the same family group and that previous illnesses had occurred in the family, one case about six weeks previous to the appearance of recognized typhus, and one, July 16, which ended fatally. To August 7, 1926, a total of nine cases of typhus was reported in this group.

JAMAICA

Smallpox (alastrim)—Other communicable diseases—June 27 to July 31, 1926.—During the period June 27 to July 31, 1926, 85 cases of smallpox (reported as alastrim) were reported in localities other than Kingston in the Island of Jamaica. Other communicable diseases were reported as follows:

THE	Disease	Kingston	Other localities	Disease	Kingston	Other localities
Chicken p Leprosy Puerperal		4 6	11 6 2	Tuberculosis Typhoid fever Yaws	5 12	\$3 86 15

JAPAN

Cholera—Yokohama—August 25, 1926.—The occurrence of a case of cholera at Yokohama, Japan, was reported August 25, 1926.

¹ Public Health Reports, Aug. 13, 1926, p. 1750, and Aug. 27, 1926, p. 1867.

LATVIA

Communicable diseases-June, 1926 .- During the month of June, 1926, communicable diseases were reported in the Republic of Latvia as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis	6 32 20 30 1 186 13 3	Puerperal fever Rabies Scarlet fever Tetanus Trachoma Typhoid fever Typhus fever Whooping cough	19 5 74 11 5

Population, 1,850,000; estimated.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

Reports Received During Week Ended September 3, 19261 CHOLERA

Place	Date	Cases	Deaths	Remarks		
China: Swatow	July 11-17	10	15	Stated to be apparently increas-		
India	July 4-10	39	36	June 20-26, 1926: Cases, 1,212 deaths, 778.		
Rangoon	do	7	11			
Japan: Yokohoma	Aug. 25	1	4- 11/			
Philippine Islands: Manila	July 11-17	3	1	A STATE OF THE PARTY OF THE PAR		
Siam: Bangkok	July 4-10	18	4	111111111111111111111111111111111111111		

PLAGUE

Azores: Fayal Island—				
Horta	Aug. 2-8	1	1	NOTE AND ASSESSED TO SERVICE
St. Michaels Island	June 27-July 10	3	1	At Arrifes, Furnas, and San Roque.
China:				
Amoy	July 11-24	13		Deaths not reported.
Nanking.	July 4-24			Prevalent.
India		******		June 20-26, 1926; Cases, 464;
Karachi	July 11-17	1	1	deaths, 337.
Madras Presidency	July 18-24	18	12	
Rangoon	July 4-10	1	1	
Japan:				
Yokohama	July 24-30	3	2	Total: July 2-Aug. 2, 1926—cases, 9; deaths, 7.
Java:	The second of the			o, dods.io, 1.
Batavia	July 3-9	6	6	

SMALLPOX

		-		
Brazil: Bahia Para Rio de Janeiro	July 4-10	4 180	7 2 70	
Canada: Ontario		100		Aug. 8-14, 1926:
Saskatchewan				Ang 9-14 1006.

¹From medical officers of the Public Health Service, American consuls, and other sources

Reports Received During Week Ended September 3, 1926-Continued

Place	Date	Cases	Deaths	Remarks
China:	t			
Chungking	July 11-17			Present.
Hongkong	June 27-July 3	1	1	
Manchuria-				
Dairen	June 28-July 18	3	2	
Harbin	July 15-21	5		
Manchurian Railway stations.	July 18-24	3		4 - 1
Nanking	July 4-24	******		Prevalent.
Shanghai	July 11-24	2	2	Cases, foreign; deaths, Chines
Do	July 1, 1925-June, 30, 1926.	82	205	and foreign. Cases, foreign; deaths, native and foreign in internations
India				June 20-26, 1926: Cases, 3,783
				deaths, 1,053.
Bombay	July 4-17	42	22	
Calcutta	July 4-10	8	7	The state of the s
Karachi	July 18	2		Service Statement Comments
Madras	July 4–10	4	3	
Rangoon	July 4-10	1		
Italy: Rome	June 14-20	4		Entire consular district, including Island of Sardinia.
Jamaica				June 27-July 31, 1926: Cases, 85 Reported as alastrim.
Mexico:				reported as alasting.
Guadalajara	Aug. 10-16		1	
San Luis Potosi	Aug. 8-14			
Netherlands:	Aug. 0-11			
Amsterdam	July 18-24		9	No. of the last
Persia:	amy 10-24			
Teheran	Apr. 21-May 21	1000	7	
Siam:	24.21 22.27			
Bangkok	July 4-10	15	16	
Union of South Africa:	,	-	-	
Orange Free State Transvaal—	June 27-July 3			Outbreak. On farm.
Johannesburg	July 11-17	1		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Steamship ——	July 2	1		Vessel from Glasgow, Scotland for Canada. Patient from Glasgow; removed at quaran tine on outward voyage. Con- tact shown with epidemic chicken pox.

Egypt: Port Said Great Britain (Scotland): Glasgow Latvia	July 9-15	3	1	In same family. June, 1926; Cases, 12.
Palestine: Haifa Majdal District Nazareth District Poland.	July 13-19dodo	1 1 3		June 6-26, 1926; Cases, 156;
Union of South Africa: Cape Province— Glen Grey District	June 27-July 3	HAMA,		June 6-26, 1926: Cases, 156; deaths, 10. Outbreaks.

Reports Received from June 26 to August 27, 1926 1

CHOLERA

Place	Date	Cases	Deaths	Remarks
Ceylon				Apr. 18-May 29, 1926: Cases, 31
China:		1000	100	deaths, 29.
Shanghai	Reported July 20	35	8	Comment of the commen
French Settlements in India				Mar. 7-May 15, 1926: Cases, 19; deaths, 18,
Ya. Alla	The state of the s	1 11	Wall Hall	Apr. 25-June 19, 1926: Cases,
India	May 30-June 5	1	1	17,314; deaths, 10,753.
Bombay	Apr. 4-May 29	478	418	Tiloral denised salines
Calcutta	June 13-26	73	69	
Do	June 27-July 3	48	46	
Do Madras	May 16-June 5	2	1	
	May 9-June 26	67	44	
Rangoon	June 27-July 3	9	6	
Do	June 21-July 3			
Indo-China:	May 2-15	52	48	
Saigon	May 22-June 26	42	32	
Do	June 27-July 3	19	14	The second secon
Do	June 21-July 3	10	44	
Philippine Islands:	May 18-24	2	2	The second secon
Manila	May 18-24	î	1	
Do.:	June 27-July 3			A CONTRACTOR AND ADDRESS OF THE PARTY OF THE
Provinces—	1 10 04		•	
Albay	Apr. 18-24 Feb. 21-Mar. 6	1 3	200	TATEL OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN T
Mindoro		42	43	1101
Romblon	Dec. 14-31	16	12	M. SPOLETTER
Do	Jan. 2-23	10	12	the state of the s
Siam:	35 0 T 10	1, 325	736	
Bangkok	May 2-June 12	1, 323	26	The same of the sa
Da	June 20-26	36	18	O - Linguistativo
Do	June 27-July 3	30	10	A STATE OF THE STA

PLAGUE

Algeria:	June 21-30	- 1	7 Laur	Under date of July 16, 2 cases reported.
Azores:	of the country of		7217	The state of the s
St. Michaels-				
Arrifes	May 9-June 26	2		
Livramente	May 15-29	2	1	The state of the s
British East Africa:				The second second
Kisumu	May 16-22	1	1	
Uganda	Mar. 1-31	35	34	And the second
Cevlon:			1 - 6	
Colombo	May 29-June 5	1	1	
Chile:	7,110	4.		
Iquique	June 20-26		1	The second secon
China:			Cont of	And the second s
Amoy	Apr. 18-June 26	40	30	the state of the s
Do	June 27-July 3	8		
Foochow.	June 6-12			Several cases. Not epidemic.
Nanking	May 9-July 3		Marie Land	Prevalent.
Ecuador:	and a said arrest			Colored to the second section of the sectio
Guayaquil	May 16-June 30	6		Rats taken, 30,914; found in-
~ aay adam	1		24/ 25 2 2 3 3	fected, 31.
Do	July 1-15.			Rats taken, 10,020; found in-
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	44.7			fected, 8.
Egynt				Jan. 1-July 8, 1926: Cases, 100.
Egypt City—				
Suez	May 21-July 1	9	5	
Provinces-				
Beni-Suef	May 28-June 8	. 8	2	ACTUAL TO SELECT THE WARREN
Gharbieh	June 2	1	LICE ST	Talker and the property of the second
France:	suno zamana		1002 ce, 2019	The second second second
Marseille	July 8	1	1	Reported July 24.
St. Denis.	Reported Aug. 2		BRU LIST	Vicinity of Paris.
Greece:	meported Aug. a			200
Athens.	Apr. 1-May 31	16	4	Including Pircus.
Patras	May 27-June 12	4	-17	
Zante	May 17	. 1	1.6	Marine Land Committee
Hawaii:	stay Ir	165	********	and the second s
Paanhan	July 18-24.		low to the	Plague-infected rat trapped.
				Tamble suite con and erichbert

¹ From medical officers of the Public Health Service, American consuls, and other sources

## Reports Received from June 26 to August 27, 1926-Continued

## PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
			-	
India				. Apr. 25-June 19, 1926: Case 52,537; deaths, 41,239.
Bombay	May 2-June 26	16	15	
Karachi	May 23-June 26 Apr. 25-June 26 May 9-June 26	15		
Madaca Passidanas	Apr 25 June 26	162		
Madras Presidency	Mor 0 Tuno 26	20		The state of the s
Rangoon	Terms Of Index 9	20		
Do Indo-China:	June 27-July 3			
	Man 00 Tons 00	8	3	
Saigon	May 23-June 26		. 0	
fraq:	A 10 Tun- 10	101	108	
Baghdad	Apr. 18-June 12	161	100	
apan:			3	
Yokohama	July 2-21	6	. 3	
lava:				100
Batavia	Apr. 24-June 19 June 26-July 2	65	63	
Do	June 26-July 2	12		Province.
Cheribon East Java and Madoera	Apr. 11-24	3	3	***************************************
East Java and Madoera	June 13-19	1	1	And the state of t
Madagascar:	200		1	
Ambositra Province	May 1-15	4	4	Septicemic.
Moramanga Province	Apr. 1-15	- 2	2	Do.
Tananarive Province				Apr. 1-June 15, 1926: Cases, 119
			1	deaths, 111.
Tamatave (Port)	May 16-31	1	1	The state of the s
Tananarive Town	Apr. 1-May 15	- 6	. 6	
Tamatave (Port) Tananarive Town Other localities	do	80	77	Bubonic, pneumonic, septicemic
Vigeria		00		Feb. 1-Apr. 30, 1926: Cases, 115
***************************************				deaths, 92.
Peru				May-June, 1926: Cases, 57;
Departments-				deaths, 16.
Ancash	May 1-31			Present.
Cajamarca	May 1-June 30	10	4	A I COOMS.
	May 1-June 30	10	1	
Ica	May 1-31	1	********	Passanana anna & Tanilla
Libertad	do	4		Pacasmayo, cases, 2; Trujillo
*1	35 3	- 00	100	district, cases, 2.
Lima	May 1-June 30	29	12	Y . YY L. M. A. J. A.
Piura	June 1-30	13		In Huancabamba district.
Russia				Jan. 1-Mar. 31, 1926: Cases, 37. Nov. 1-30, 1926: Cases, 3; deaths,
Senegal				Nov. 1-30, 1926: Cases, 3; deaths,
				2. Mar. 1-Apr. 30, 1926; Cases,
liam:	16			15; deaths, 4.
				The second second
Bangkok	May 23-June 26	. 2	2	F. Andrewson C.
Straits Settlements:				
Singapore	May 2-8	- 1	1.	41.4
lyria:			F 8 9 4	
Beirut	July 1-10	1		100
unisia	May 11-June 20	150	2335700300	The state of the s
Kairouan	June 9	3		9 cases 30 miles south of Kaironan.
nion of South Africa:	***************************************			
Cape Province	May 16-22		3	
Calvinia District	June 13-26	12	6	
Do District	June 27-July 3	1		
Do	June 13-26	2	********	
Do District	June 27-July 3	i		
Orange Free State	June 21-July 3			
Orange Free State	Art I was a little of the		Laterally	
Hoopstad District-	Man 0 m	3		
Protestpan	May 9-22	3	3	
Partico II and a service and				The same and the s
not assort all that had	SMALL	POT		The same of the
and analysis of the state of th	SMAI4	TOX		
1				
Igeria:	88 - 189	7.	Car will	
Algiers.	May 21-June 30	14	1000	

			1 1
Algeria:	An allen	170	of as well
Algiers	May 21-June 30	14	
Do	July 1-10	1	
Bolivia:	10		Wells.
La Pas	May 1-June 30	14	7
Brazil:			1
Bahia	June 20-26	1	
Do	June 27-July 3	- 1	
Manaos	Apr. 1-30		5
Para	May 16-June 26	26	25
Do	June 27-July 17	10	6.
Rio de Janeiro	May 2-June 19	132	91
Santos	Mar. 1-7		Rott at 1

## Reports Received from June 26 to August 27, 1926-Continued

Place	Date	Cases	Deaths	Remarks
British East Africa:				The second of th
Tanganyika	May 2-22		12	1 177.00
Tangany Ind	Mar. 1-31	1		
Uganda British South Africa:	Mint. 1-01			Contract Con
Northern Rhodesia	May 18-24	17	8	Natives.
	June 8-14	5		Matters.
Do	June 8-19			May 30-June 12, 1926; Cases, 46
Canada	3.f 90 Tune 10			. May 30-3 une 12, 1920, Cases, 40
Alberta	May 30-June 12	3		
Do	June 27-July 1			
Manitoba	May 30-June 26	24	*********	
Do	June 27-July 24	7		
Winnipeg	June 6-12	5	1	The state of the s
Do	July 4-17	6		0.5
Onterio				May 30-June 25, 1926: Cases, 36 June 27-Aug. 7: Cases, 43,
Fort William	July 25-Aug. 7	2	1	June 27-Aug. 7: Cases, 43,
Kingston	May 23-June 26	5		
Do	July 11-17	2	1	A CANTEL DE LOTE TO LET
Kitchener	Apr. 26-May 29	. 8	1	A PAN PAR BURE
North Bay	May 2-22	5	1 .	100000000000000000000000000000000000000
North Day	Theles Of 21			
Do	July 25-31	2 7		7 /3/4
Orillia	Apr. 26-May 29			The state of the s
Ottawa	July 18-24	1		
Packenham	do	10		***************************************
Toronto	do	7		THE THEFT IS
Waterloo	do	6		and the second second
Saskatchewan				May 30-June 19, 1926; Cases, 16
Regina	July 4-10	2		June 27-Aug. 7: Cases, 36.
Carlon	July 1 location			May 30-June 19, 1925; Cases, 16 June 27-Aug. 7: Cases, 36. Mar. 14-May 29, 1926; Cases, 44
Ceylon				deaths, 3.
Chile:	June 6-12	. 1		desino, o.
Antofagasta	June 9-12			
China:				
Amoy	May 1-June 26	9	8	
Do	July 4-10	1		
Antung	May 1-June 26 July 4-10 May 17-June 19	. 5		The second secon
Do	July 4-18	2		the state of the s
Canton	May 1-31.	4	2	Part and a street of the
Chungking	May 2-July 10		35 7 15 12	Present.
ChungkingFoochow	do			Do.
Hongkong	Mar 9 Irms 98	19	10	Do.
Manchuria	May 2-June 26 July 6-17	10	10	Railway stations.
	Mary 16 Trans 19			South Manchurian Railway.
An-shan	May 16-June 12 May 16-June 19	5		South Manchullan Manway.
Antung	May le-June 19	6		Paralle Little and to the All
Changehun	May 16-June 26			Do.
Do	June 27-July 8 Apr. 26-June 20 May 16-June 5 May 14-June 30	1		Do.
Dairen	Apr. 26-June 29	60	16	2000
Fushun	May 16-June 5	4		Do.
Harbin	May 14-June 30	21		Do.
Do	July 1-7:	2		
Kai-yuan.	May 16-June 30	10		Do.
Kungchuling	Immo 12-10	1		Do.
	June 13-19 May 16-June 30	4		De.
Lino-yang	May 10-vune 30			
Mukden	do	1		Do. Do.
Penhsthu	May 16-June 10 May 16-June 30	4	-2	Do.
Ssupingkai	May 16-June 30	2		Do.
Teshihchiao	do	2		Do.
Wa-feng-tien	do	- 3		Do.
Nanking	May 8-July 8 May 2-June 26		12/11/20/20/20	Present.
Shanghai	May 2-June 26	10	25	Cases: Foreign. Deaths, popul
Do	June 27-July 10	. 1	1	Cases: Foreign. Deaths, population of international conces
	and pi amy source			sion, foreign and native.
Swatow	May 9-July 10			Sporadic.
Tientein			1	Reported by British munici-
Tientsin	June 2-26		1	reported by British munici-
Wanablan			1 1 1 1 1 1 1	polity.
Wanshien	May 1			Prevalent.
hosen				Mar. 1-Apr. 30, 1926: Cases, 368
Fusan	May 1-31	1	- 114-114	deaths, 66,
Seishun	40	2	27.1	ALL STATES AND ALL STATES
gypt:		100	0104294	A property of the second secon
gypt: Alexandria	May 15-July 1	- 18		
Cairo	Jan. 29-Feb. 4	10	. 1	
Cairo	Jan. 29-Fec. 4		Lot OLV T	Man 1 Tons 00 1000 Care 4
Sthonia				May 1-June 30, 1926: Cases, 3. Mar. 1-Apr. 30, 1926: Cases, 92,
rance				Mar. 1-Apr. 30, 1925: Cases, 92.
St. Etienne	Apr. 18-June 15 Mar. 7-May 15	- 7	3	A TOTAL OF THE PARTY OF THE PAR
rench Settlements in India	Mar. 7-May 15	205	205	The state of the s
old Coast	Mar. 1-Apr. 30		13	The second secon

## Reports Received from June 26 to August 27, 1926-Continued

Place	Date	Cases	Deaths	Remarks
Great Britain:				
England and Wales				May 23-July 3, 1926: Cases 1,068. July 4-31, 1926: Cases
Bradford	May 23-29	1		. 1,068. July 4-31, 1926: Cases
Newcastle-on-Tyne	June 6-12	. 1		. 376,
Do	July 11-17. May 2-June 5 June 13-19	. 1		The second second
Nottingham	May 2-June 5	. 7		
Sheffield	June 13-19	. 1		
Do	July 4-10	. 1		
Greece:		1		
Saloniki	June 1-14		3	
Guatemala:		1		
Guatemala City	June 1-30	1	. 2	
India				Apr. 25-June 19, 1926: Cases,
Bombay	May 2-June 26	220	134	51,068; deaths, 13,718.
Do.	June 27-July 3	12		
Calcutta	Apr. 4-May 29	171	152	
Do	June 13-26	24	18	
Do	June 13-26 June 27-July 3 May 16-June 26	5	5	
Karachi	May 16 June 26	44	18	
	June 27-July 10	1 4	4	
Do	May 16 June 26	6 7	1 . 4	
Madras	May 16-June 26 June 27-July 10	2		
Do	June 2/-July 10	10	5	
Rangoon	May 9-June 26	10	9	
Indo-China:	4.			APPENDING.
Saigon	do	2	********	. 1972
Iraq: Bagdad Do				The Telection
Bagdad	do	8	3	to the state of the state of
Do	July 4-10	1	1 .	I No.
Basra	Apr. 18-June 22	34	25	1001 C 04
Italy				Mar. 28-June 5, 1926: Cases, 26.
Jamaica				Apr. 25-June 26, 1926: Cases, 201. (Reported as alastrim.) Apr. 11-May 29, 1926: Cases, 564.
Japan		l		Apr. 11-May 29, 1926: Cases, 564.
Kobe	May 30-June 5	1		
Nagoya	May 30-June 5 May 16-22 July 4-10		1	
Do	July 4-10	1		
Taiwan Island	May 11-20	24	•	and the state of t
Do	June 1-20	24 23		- 4 - I I I I I I I I I I I I I I I I I
Tokyo	June 26-July 3	2		The second secon
Yokohama	May 2-8	2 2		and the second second
Java:	,			
Datavia	May 15-June 25	2		Province.
East Java and Madoera	Apr. 11-June 19	78	5	
Malang	Apr 4-10	6	1	Interior.
Surabaya	Apr. 4-10 May 16-22	14	i	
Latvia	May 10 22			Apr. 1-30, 1926: Cases, 3.
Mexico				Feb. 1-Mar. 31, 1926: Deaths, 602.
Aguascalientes	June 13-26	*******	× ×	100.1 114.01, 1020. Detaile, 000.
Quadalatara	June 8-14		5 2	
Guadalajara	Tune 20 Ang 0		1	
Do.	June 29-Aug. 9 May 16-June 5	3		Including municipalities in Fed-
Mexico City	May lo-June 5	0	1	eral District.
Saltillo	July 18-24			Present: 100 miles from Chihua-
San Antonio de Arenales	Jan. 1-June 30			
San Luis Potosi	June 13-26		7 8	hua.
Do	July 4-Aug. 7	******	8	
Tampico	June 1-10		17	The Land of the La
Torreon.	June 1-10			The second secon
Do	July 1-31:		5	
Nigeria				Feb. 1-Apr. 30, 1926: Cases, 404; deaths, 33.
Peru:			Cont was	the state of the state of the state of
Arequipa	June 1-30		1	
Poland				Mar. 28-May, 1926: Cases, 12;
	A CONTRACTOR OF STREET	-	00 350 00	deaths, 1.
Portugal:			1000	MANUAL PROPERTY AND ADDRESS OF THE PARTY AND A
Lisbon	Apr. 26-June 19	10	3	
Oporto	Apr. 26-June 19 May 23-June 5	4		
Do	July 11-24	2		Contract to the second
Russia				Jan. 1-Mar. 31, 1926: Cases, 2,103.
Biam:				
Bangkok	May 2-June 12	23	20	
Straits Settlements:	a dille 12	20	20	
	William Committee on the Committee of th		100000	
	Ane 95 May 1			
Singapore	Apr. 25-May 1	1		AND THE RESERVE OF THE PARTY OF
	Apr. 25-May 1 June 1-30	1		

## Reports Received from June 26 to August 27, 1926-Continued

Place	Date	Cases	Deaths	Remarks
Union of South Africa:				
. Cape Province	June 20-26			Outbreaks.
Idutya district	May 23-29 June 20-July 3			Do.
Orange Free State	June 20-July 3			Do.
Natal	May 30-June 5			Do.
Transvaal				June 6-12, 1926: Outbreaks in
Johannesburg				Pietersburg and Rustenburg Districts.
Yugoslavia				Apr. 15-30, 1926: Cases, 2; deaths
On vessel			2412-39	Three cases, 1 death, at Aden Arabia, stated to have been imported by sea.
S. S. Karapara				At Zanzibar, June 7, 1926. On
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2			12000	At Zanzibar, June 7, 1926. On case of smallpox landed. A
	The T	15	1 1 N	Durban, Union of South Africa June 16, 1926: One suspect case
				landed.
	TYPHUS	FEVE	R	New Transfer
	11	1	1-3-1	
Algeria:	May 21-June 30	7	1	
Argentina:	Feb. 1-28	2		and the same of th
RosarioBolivia:	Feb. 1-28	2		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
La Paz	June 1-30		1	State of the San Control of the Control
Bulgaria				Mar. 1-Apr. 30, 1926; Cases, 64 deaths, 12.
Chile:				destin, 12.
Antofagasta	May 23-June 26 June 27-July 3			
Do	June 27-July 3	Jan 1		
Valparaiso	Apr. 29-May 5		1	The state of the s
China: Antung	June 14-27	7	14	
Do	June 28-July 18	14	1	The state of the s
Canton	May 1-31.	1	********	D
Ichang			1	Reported May 1, 1926. Occurring among troops.
Wanshien				Present among troops, May 1
1997		0. 12.1	100	Present among troops, May 1 1926. Locality in Chungking consular district.
Chosen				Feb. 1-Apr. 30, 1926; Cases, 640
Chemulpo	May 1-June 30	- 38	2	deaths, 66.
Chemulpo	June 1-30	- 1		
Seoul	do	- 8	3	20 DOM:
Czechoslovakia				Jan. 1-May 31, 1926: Cases, 154 deaths, 4
Egypt:		23		The second secon
Port Said	June 4-24	4	1	
Cairo	Jan. 29-Feb. 18	8	•	
Great Britain: Scotland—				
Glasgow		7		Reported Aug. 3, 1926.
Ireland (Irish Free State): Cobh (Queenstown)	Man 20 Tune 5	1		
	May 30-June 5 June 27-July 3	i	1	
Cork	June 5	i		
Korry County-	June J		*******	
Kerry County— Dingle	June 27-July 3	1		
Italy	June 21 July J			Mar. 28-May 8, 1926: Cases, 3
Japan				Mar. 28-May 29, 1926; Cases, 37.
Latvia				May 1-31, 1926: Cases, 7:
Lithuania				Mar. 28-May 8, 1926: Cases, 3 Mar. 28-May 29, 1926: Cases, 37 May 1-31, 1926: Cases, 7 Mar. 1-May 31, 1926: Cases, 172
		18 %	77363	deaths, 21.
Mexico				Feb. 1-Mar. 31, 1926: Deaths, 73
Durango	July 1-31		1	Including municipalities in Pad
Mexico City	May 16-June 5	20		Including municipalities in Federal District.
Do	June 13-19	9		Do.
San Luis Potosi	June 13-26			Present, city and country. Mar. 1-May 31, 1926: Cases, 414.
Morocco.	the same of the control of the last of	Marie Control	a constitution of	Mar May 31, 1925; Cases, 414.

## Reports Received from June 26 to August 27, 1926—Continued

## TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Palestine				March, 1926: Cases, 6. Exclu-
Gaza. Jaffa District.	July 6-12	1		sive of Bedouin tribes and the British military forces.
Peru: Arequipa	Inn 1 91		2	
Poland				Mar. 28-June 5, 1926; Cases, 1,116; deaths, 75.
Rumania				Mar. 1-Apr. 30, 1926; Cases, 395;
Russia				deaths, 49. Jan. 1-Mar. 31, 1926: Cases,
Tunisia				14,814. Apr. 1-June 30, 1926: Cases, 110.
Tunis	177			
Constantinople Union of South Africa	June 16-22			Apr. 1-May 31, 1926; Cases, 153;
Cape Province				deaths, 19. Apr. 1-May 31, 1926; Cases, 116;
				deaths, 15. Native.
DoGrahamstown	do	1		Outbreaks. Sporadic.
Natal Orange Free State				Apr. 1-May 31, 1926; Cases, 17, Native.
Orange Free State				Apr. 1-May 31, 1926; Cases, 15; deaths, 1.
Do	June 6-12			Outbreaks. Apr. 1-30, 1926; Cases, 3; deaths,
				3. Native. Outbreaks.
Walkkerstroom district Wolmaransstad district	do			Do.
YugoslaviaZagreb		1		Apr. 15-June 30, 1926: Cases, 48; deaths, 7.

## YELLOW PEVER

Brazil	Reported June 26.			Present in interior of Bahia, Pira- pora, and Minas.
Bahia	May 9-29	4 6	3	pola, and minas.
Gold Coast	Apr. 1-10	3	1	in the second of the